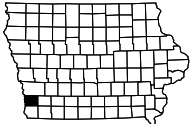


MILLS COUNTY

Grading
IMN-029-1(156)26-0E-65

LETTING DATE
Jan 20, 2027



INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets	Title Sheets
A.1	Title Sheet
A.2	Location Map Sheet
B Sheets	Typical Cross Sections and Details
B.1 - 2	Typical Cross Sections and Details
D Sheets	Mainline Plan and Profile Sheets
D.1	Plan & Profile Legend & Symbol Information Sheet
D.2	I-29
G Sheets	Survey Sheets
G.1 - 3	Reference Ties and Bench Marks
G.4	Alignment Coordinates
J Sheets	Traffic Control and Staging Sheets
J.1	Traffic Control Plan
J.2	Staging Notes
W Sheets	Mainline Cross Sections
W.1	Cross Sections Legend & Symbol Information Sheet
W.2 - 9	Mainline Cross Sections
X Sheets	Side Road Cross Sections
X.100 - 134	Rist Ave
X.200 - 203	195th St



PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
MILLS COUNTY
Grading
Rist Ave 1.7 mi N of Co Rd L31

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



REVISIONS

TOTAL	
62	
PROJECT IDENTIFICATION NUMBER	
26-65-029-040	
PROJECT NUMBER	
IMN-029-1(156)26-0E-65	
R.O.W. PROJECT NUMBER	

Dates:

D5: 09/18/2026
DM5: 09/29/2026

PRELIMINARY PLANS

Subject to change by final design.

D3 PLAN - Date: July 28, 2026

I-29		Rist Ave	
DESIGN DATA RURAL		DESIGN DATA RURAL	
2024	AADT 14,900 V.P.D.	2016	AADT 40 V.P.D.
20 -	AADT - V.P.D.	20 -	AADT - V.P.D.
20 -	DHV - V.P.H.	20 -	DHV - V.P.H.
TRUCKS	15.6 %	TRUCKS	- %
Total		Total	
Design ESALs	-	Design ESALs	-

INDEX OF SEALS			
SHEET NO.	NAME	TYPE	BID QUANTITY SHEETS
A.1	Kelly C. Bell	Primary Signature Block	X
X	X	X	X

FILE NO.	ENGLISH	DESIGN TEAM	MILLS COUNTY	PROJECT NUMBER	SHEET NUMBER
		Flattery\Bell\Jack		IMN-029-1(156)26-0E-65	A.1

Existing Crossover
MP 30.8

PROJECT LOCATION

Overhead Bridge I-29/Rist Ave
FHWA #3617 (Exst)
Maint. #6526.20029

Existing Crossover
MP 25.4

T-71N

CASS CO.

MISSOURI RIVER

R-43W

R-42W

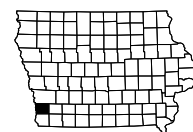
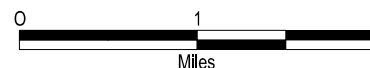
GLENWOOD

LYONS

MILLS CO.

FREMONT CO.

LOCATION MAP SCALE



FILE NO.

ENGLISH

DESIGN TEAM Flattery\Bell\Jack

MILLS COUNTY

PROJECT NUMBER IMN-029-1(156)26-0E-65

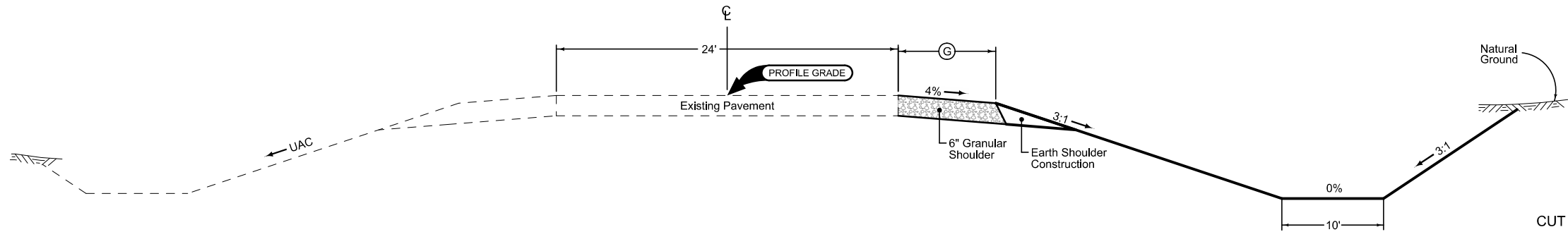
SHEET NUMBER A.2

2:58:13 PM

7/28/2026

mjack

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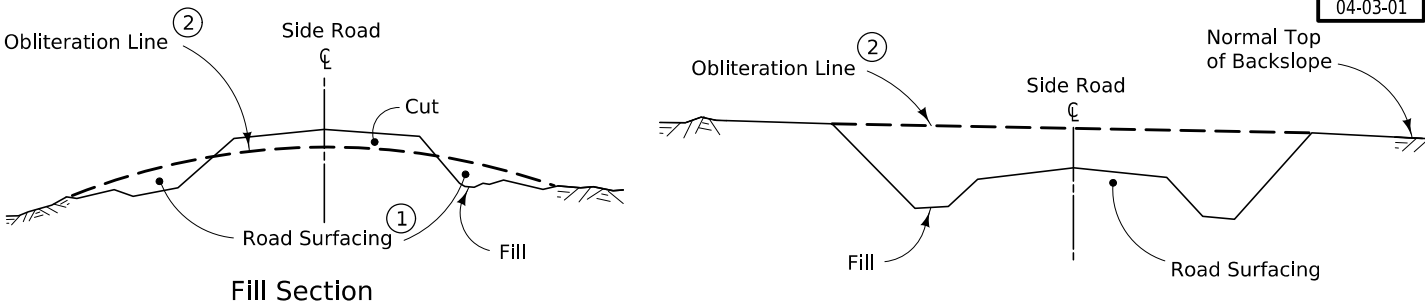
Granular Shoulder

2_G_SR_04-21-20		
STATION TO STATION		Ⓔ Feet
5025+00.00	5026+75.00	3

GRADING AND SHOULDER SURFACING

See Tab 112-9 for shoulder quantities.

195th St



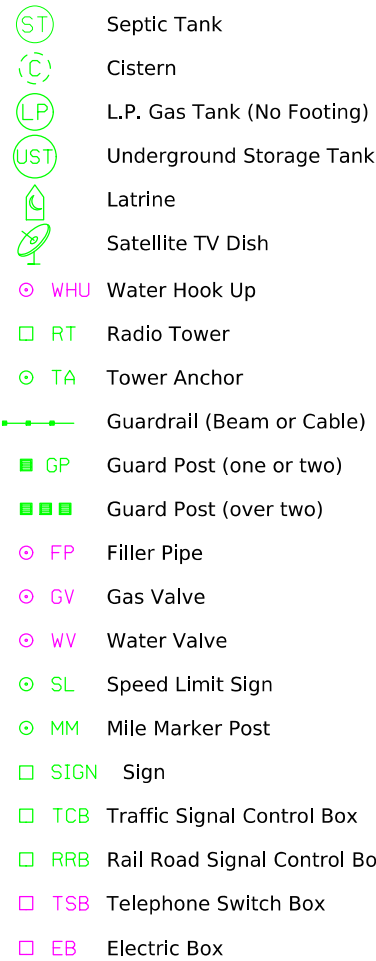
① Existing road surfacing (granular material) shall be placed as shown unless otherwise directed by the Engineer or provided for in the detail project plans.

② When specified, the upper 1' to be suitable for vegetation (grass or crops).

Note:
The work of obliterating or reshaping old roadbeds shall be done at the direction of the Engineer.

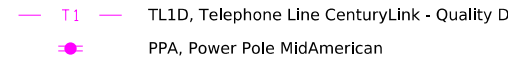
TYPICAL DETAILS FOR OBLITERATION EXISTING ROADBED

	Interstate Highway Symbol
	U.S. Highway Symbol
	Iowa Highway Symbol
	County Road Highway Symbol
	Evergreen Tree
	Deciduous Tree
	Fruit Tree
	Shrub (Bushes)
	Timber
	Hedge
	Stump
	Swamp
	Rock Outcrop
	Broken Concrete
	Revetment (Rip Rap)
	Cemetery
	Grave
	Cave
	Sink Hole
	Board Fence
	Chain Link or Security Fence
	Wire Fence
	Terrace
	Earth Dam or Dike (Existing)
	Tile Outlet
	Edge of Water
	Existing Drainage
	Right of Way Rail or Lot Corner
	Concrete Monument
	Well
	Windmill
	Beehive Intake
	Existing Intake
	Existing Utility Access (Manhole)
	Fire Hydrant
	Water Hydrant (Rural)



SURVEYED UTILITY OWNER SYMBOLS

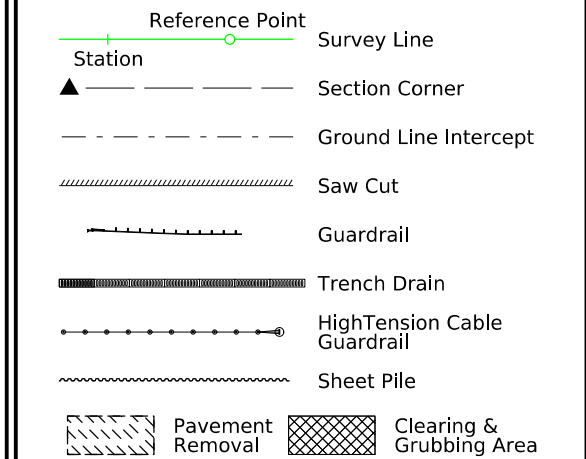
Remark Abbreviations
QLA Quality Level A Highest guideline quality level
QLD Quality Level D Lowest guideline quality level



LINEWORK	Design Color No.		
Green	(2)		Existing Topographic Features and Labels
Blue	(1)		Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)		Existing Utilities

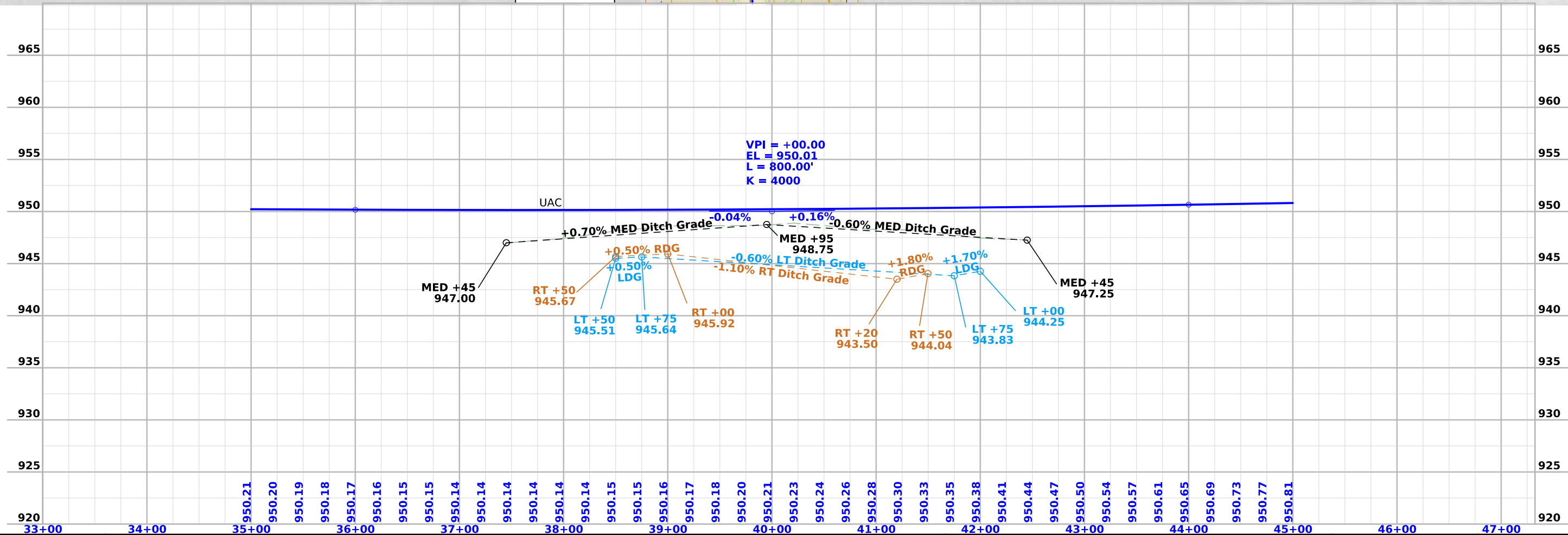
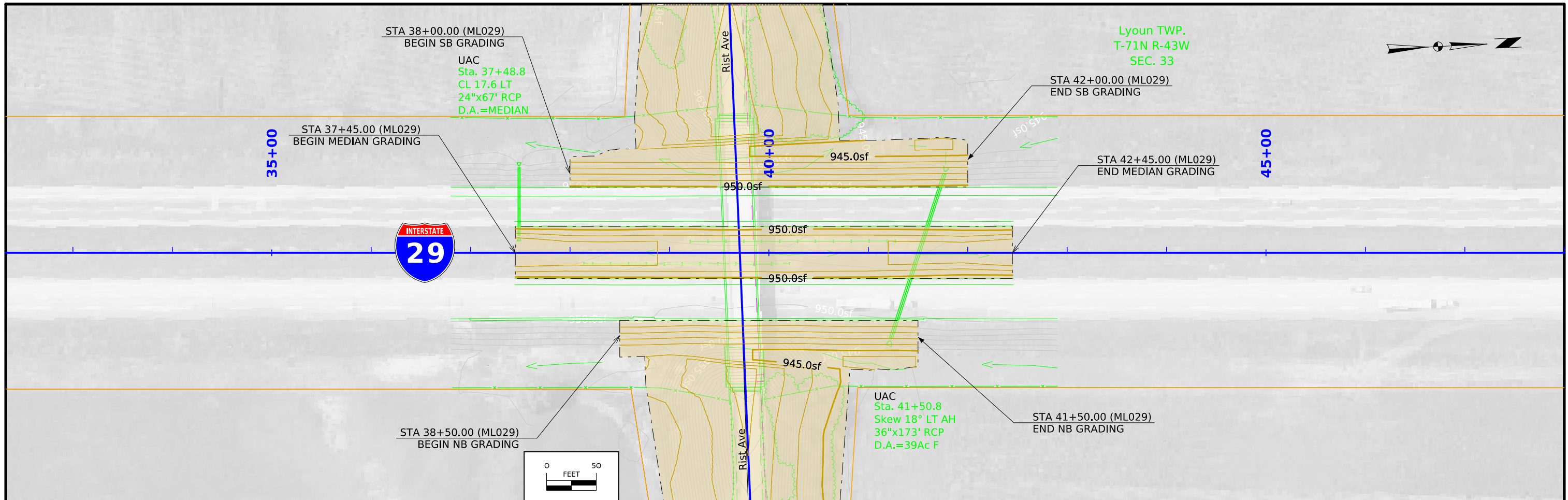
SHADING	Design Color No.		Transparency
Pink, Dark	(13)		Temporary Pavement Shading
Yellow	(4)		Proposed Pavement Shading
Orange	(6)		Proposed Granular Shading
Orange	(70)		Proposed Shoulder Granular Shading
Yellow	(68)		Proposed Shoulder Paved Full Depth Shading
Yellow	(132)		Proposed Shoulder Paved Partial Depth Shading
Brown, Light	(236)		Grading Shading
Orange, Light	(134)		Proposed Granular Entrance Shading
Yellow	(220)		Proposed Paved Entrance Shading
Tan	(8)		Proposed Sidewalk Shading
Blue, Light	(230)		Proposed Sidewalk Landing Shading
Pink	(11)		Proposed Sidewalk Ramp Shading
Red	(3)		Proposed Structure Shading
Red	(3)		Delineates Restricted Areas

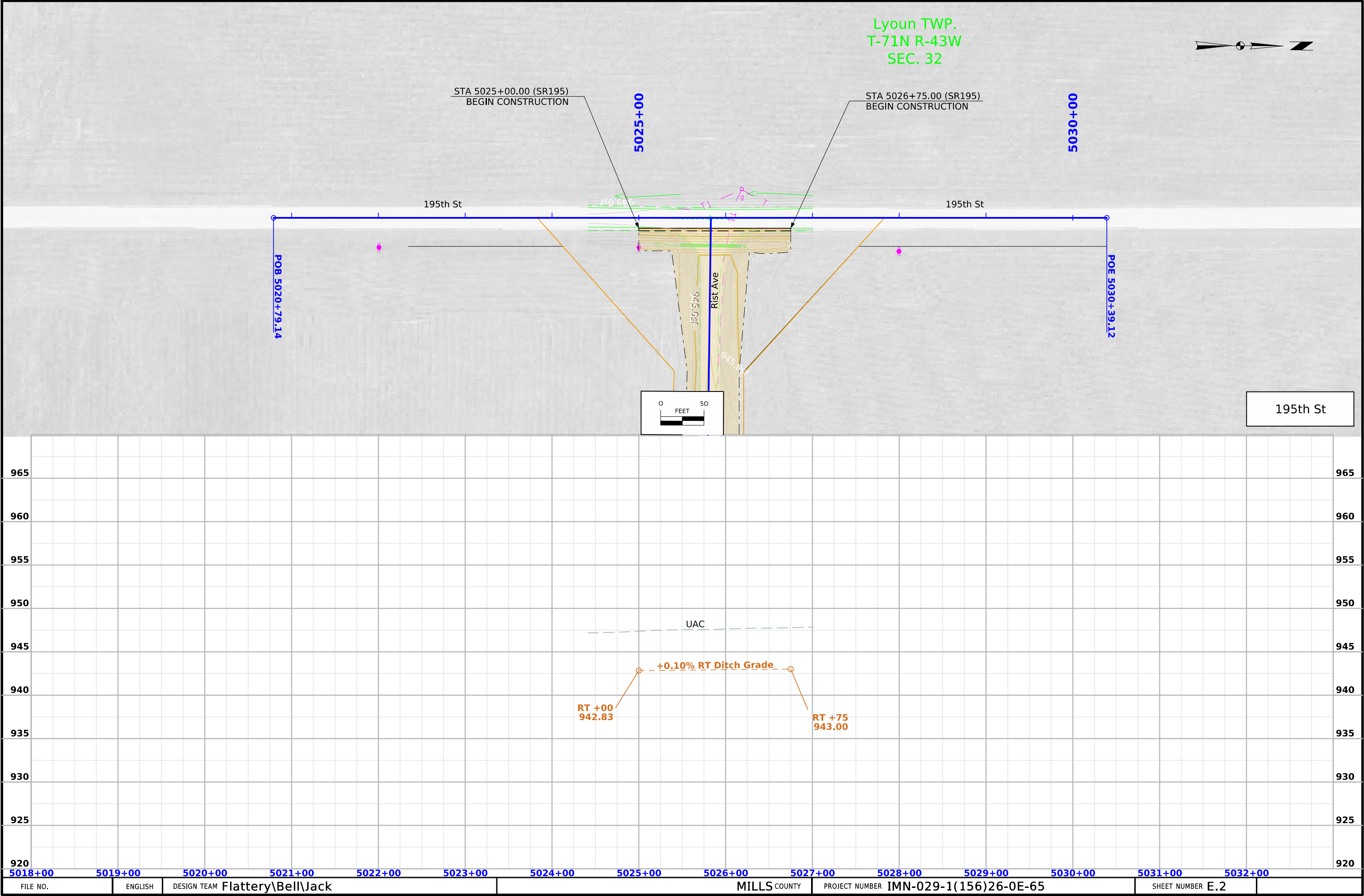
LINEWORK	Design Color No.
Green	(10) Existing Ground Line Profile
Blue	(1) Proposed Profile and Annotation
Magenta	(5) Existing Utilities
Blue, Light	(230) Proposed Ditch Grades, Left
Black	(0) Proposed Ditch Grades, Median
Rust	(14) Proposed Ditch Grades, Right



- Proposed Right-of-Way Symbol
- Proposed Right-of-Way Line
- Existing Right of Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Easement (Temporary) Symbol
- Easement (Temporary) Line
- Easement
- Access Control
- Property Line Symbol
- Property Line

(COVERS SHEET SERIES D, E, F, & K)





SURVEY INDEX

County : Mills
Project Code : 26-65-029-040
Phase Number : IMN-029-1(156)26--0E-65
Location : Rist Ave 1.7 mi N of Co Rd L31
Work Code : 3511-Grading
Project Directory : 6502904026

Survey Personnel

Paul Harry – Survey Party Chief
Bob Fredrickson – Assistant Survey Party Chief

Date(s) of Survey

Begin Date 05/05/2026
End Date 06/01/2026

General Information

This survey is for County Rd Rist Av over I-29. This survey is for bridge removal and re-grading of Rist Av from 195th St. to just west of RR crossing. This project is a Full Field DTM survey.

Utility Information

For logging data and other utility details see Utility Survey and Ownership Report in the Utility folder of the PrelimSurvey project directory.

Project Control

Coordinates were determined for primary project control points by conducting concurrent six-hour static observations. Post processing is constrained to nearby Iowa Real Time Network reference stations. For additional details of the control survey, contact the Preliminary Survey department.

PROJECT DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 ADJUSTMENT)
COORDINATE SYSTEM: IOWA REGIONAL COORDINATE SYSTEM ZONE 06
(U.S. SURVEY FOOT)
VERTICAL DATUM: NAVD88
GEOID MODEL: 2018u2

Alignment Information

The horizontal alignments for I-29 and Rist Av this survey were provided by the District 4 ROW Office.

CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points. Primary control is for use with RTK base stations and for RTN validation. Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.



HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment) - Iowa RCS Zone 06 (U.S. Survey Foot)

VERT. DATUM: NAVD88 - Geoid Model: 2018u2

Coordinate listing from next sheet will be used with IaRTN for monument recovery. No other reference ties are given.

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING
HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment)
Ia. Regional Coordinate System Zone 06 (U.S. Survey Foot)
VERT. DATUM: NAVD88
Geoid Model: 2018u2

Point Name	Northing	Easting	Elevation	Code - Description
65RISTAV01	6841331.67	16483141.95	947.05	CP SET IOWA DOT FENO MON
65059	6838165.19	16493412.25	953.75	CP FD COUNTY MON AS DESCRIBED
65063	6837412.15	16479043.50	944.50	CP FD COUNTY MON AS DESCRIBED
65502	6849323.49	16480942.74	943.74	CP FD COUNTY MON AS DESCRIBED

ALIGNMENT COORDINATES

[illegible]

108-23A
08-01-08

TRAFFIC CONTROL PLAN

1. Traffic on I-29 shall be maintained at all times.

2. During the overhead bridge removal at Rist Ave, traffic on I-29 will be shifted via TC-61 using existing median crossovers located at MM 25.4 (0.8 mi south of Rist Ave) and MM 30.8 (4.6 miles north Rist Ave).

111-01
04-17-12

COORDINATED OPERATIONS

Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project	Type of Work
	None Provided.

511 TRAVEL RESTRICTIONS													108-25 10-21-14
Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks	
			No Travel Restrictions Expected										

CROSS SECTION VIEW COLOR LEGEND			
Design Color No.	Feature	Design Color No.	Feature
Aggregate		Grading	
(64)	Choke Stone	(8)	Behind Curb Cut
(42)	Engineering Fabric	(6)	Granular
(8)	Flooded Backfill	(13)	Granular Back Fill
(92)	Macadam Stone	(48)	Rock Undercut
(20)	Modified	(8)	Shoulder Earth Fill
(12)	Plowing Shaping	(2)	Side Slopes
(14)	Porous Backfill	(226)	Side Slopes Dressing
(8)	Revetment Class A	Substrata	
(6)	Revetment Class B	(128)	Boulder
(62)	Revetment Class C	(209)	Boulder Removed
(188)	Revetment Class D	(48)	Broken Weathered
(28)	Revetment Class E	(210)	Broken Weathered Removed
(12)	Shoulder Special Backfill	(3)	Core Out
(12)	Special Backfill	(115)	Core Out Remove Only
(20)	Subbase	(195)	Core Out Remove and Replace
(20)	Subbase Lower	(203)	Existing Pavement
(20)	Subbase Upper	(184)	Existing Pavement Remove Only
(118)	Subgrade Treatment	(200)	Existing Pavement Remove and Replace
Asphalt		(6)	Loam
(207)	HMA Base Course	(211)	Loam Removed
(207)	HMA Interim Course	(80)	Rock
(207)	HMA Surface Course	(212)	Rock Removed
Bridge		(4)	Select Sand
(0)	Bridge	(214)	Select Sand Removed
Concrete		(3)	Shale
(0)	Barrier Concrete	(215)	Shale Removed
(0)	Barrier Concrete Footing	(10)	Topsoil
(0)	Curb Gutter	(2)	Topsoil Remove Only
(48)	Flowable Mortar	(4)	Topsoil Remove and Replace
(0)	Median Concrete	Unsuitable / Waste	
(0)	PCC Pavement	(3)	Unsuitable Type A
(0)	Sidewalk	(216)	Unsuitable Type A Removed
Existing		(13)	Unsuitable Type B
(0)	Existing Pavement	(217)	Unsuitable Type B Removed
Shoulder		(11)	Unsuitable Type C
(209)	Shoulder HMA	(218)	Unsuitable Type C Removed
(0)	Shoulder PCC	(3)	Waste
(6)	Shoulder Granular	(219)	Waste Removed
Structural			
(112)	Noise Wall		
(112)	Noise Wall Footing		
(112)	Retaining Wall Back		
(112)	Retaining Wall Back Excavate		
(112)	Retaining Wall Face		
(112)	Retaining Wall Front Excavate		
(112)	Retaining Wall Front Footing		
(112)	Retaining Wall MSE Gutter		
(112)	Retaining Wall Reinforced Earth		

NOTES:

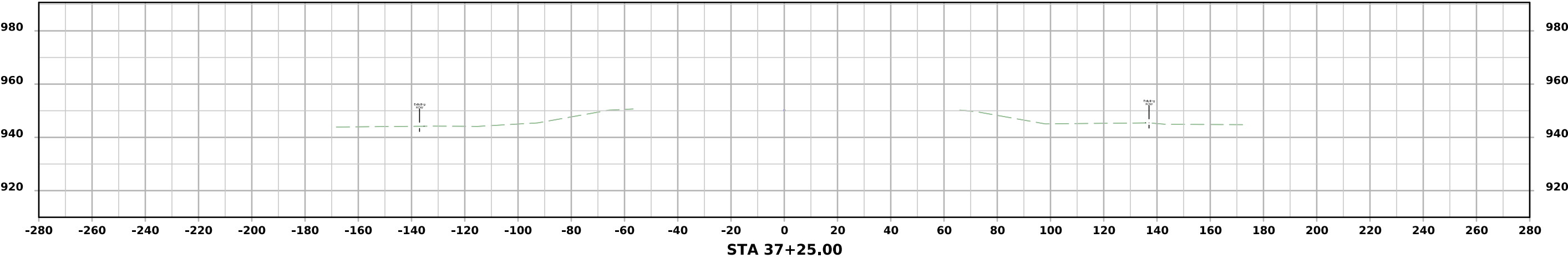
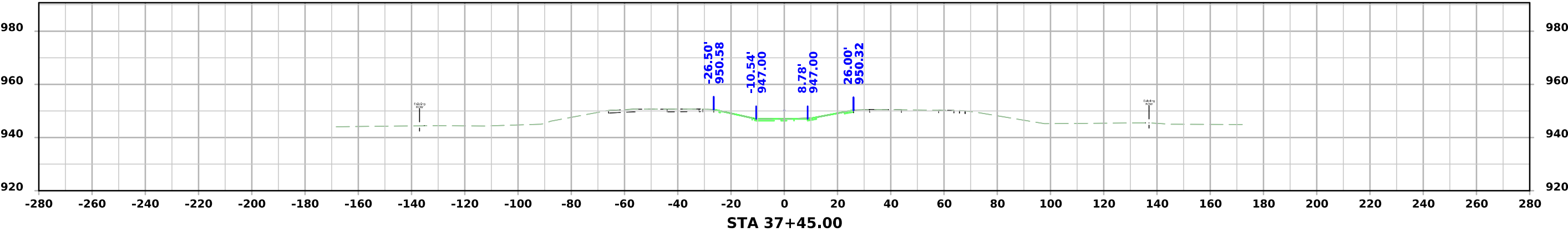
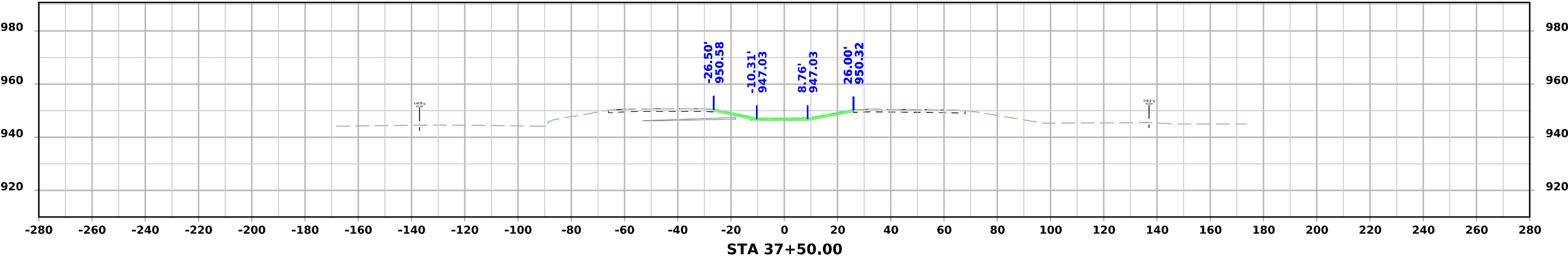
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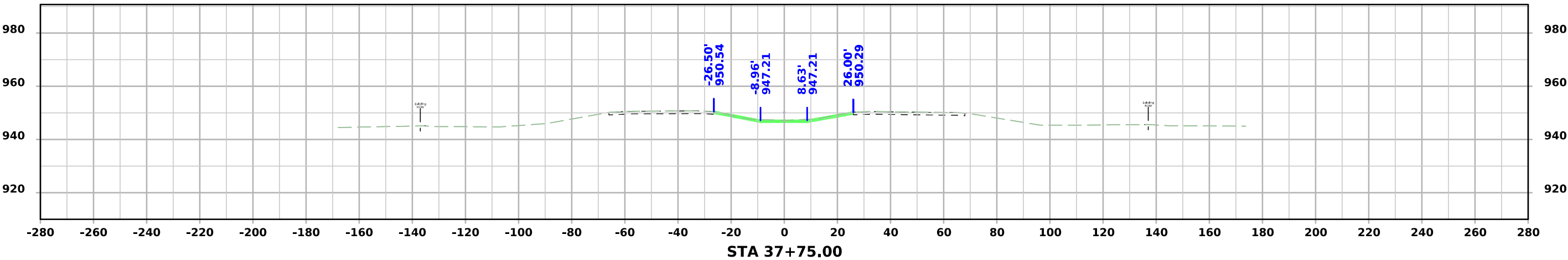
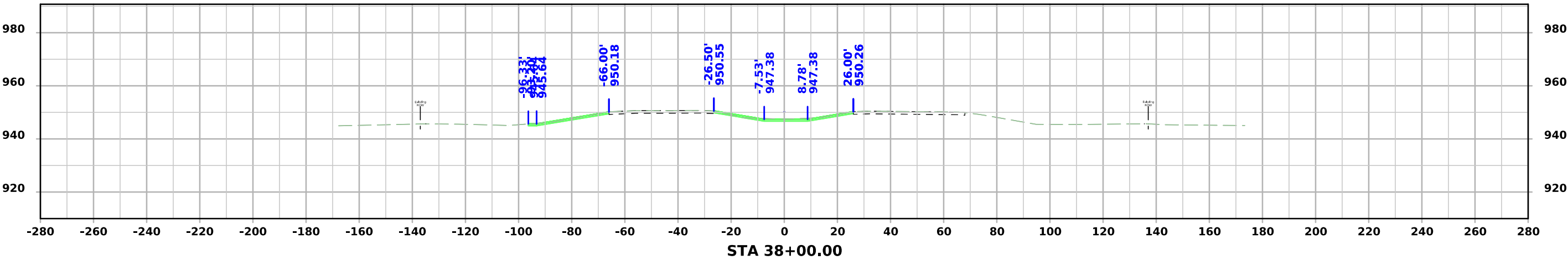
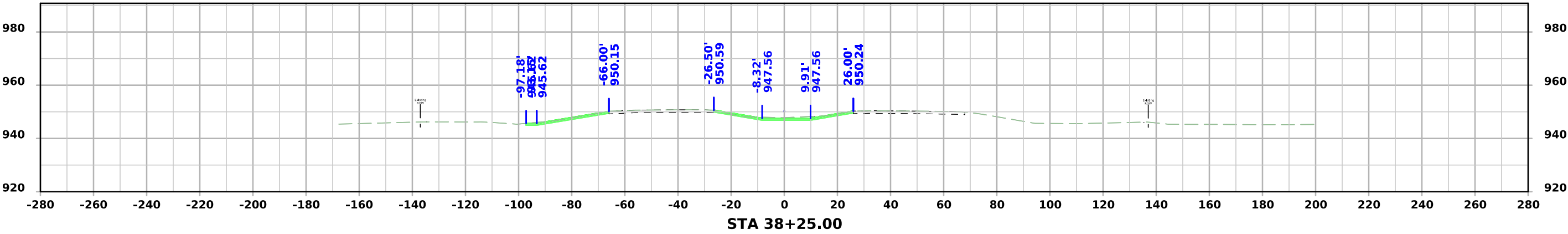
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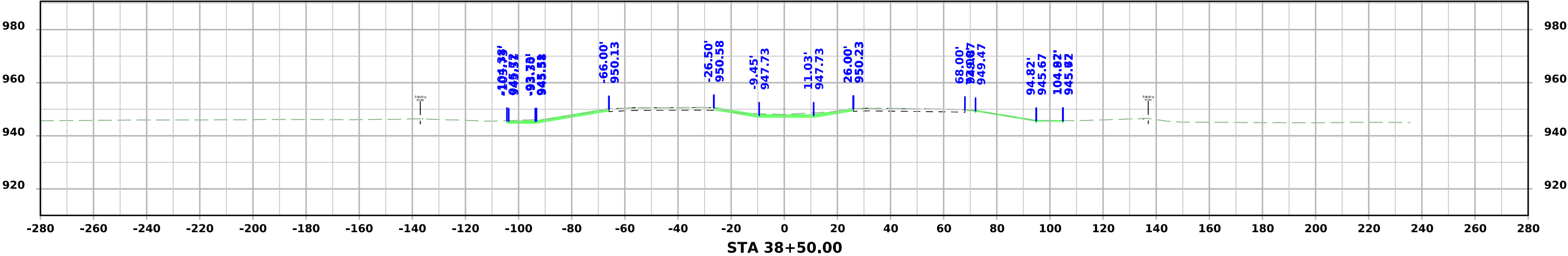
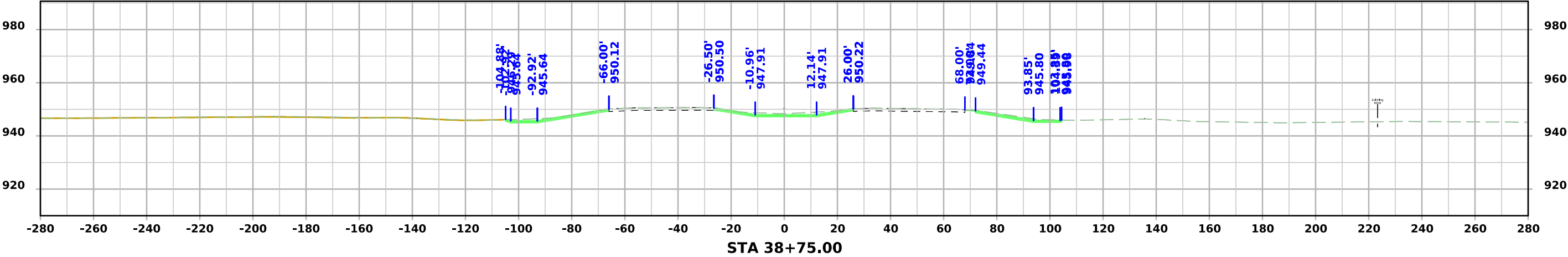
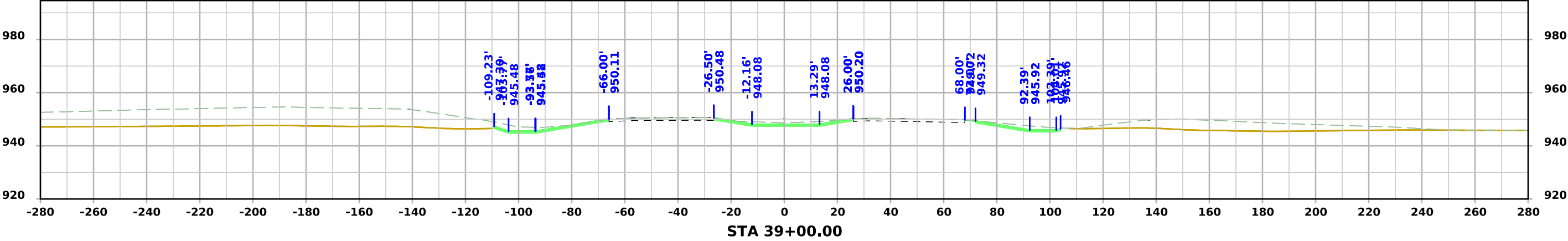
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CROSS SECTIONS
LEGEND AND INFORMATION SHEET

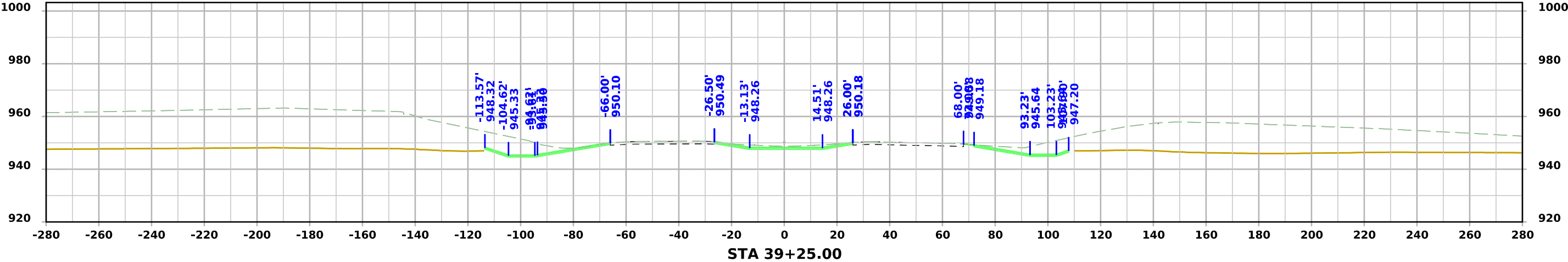
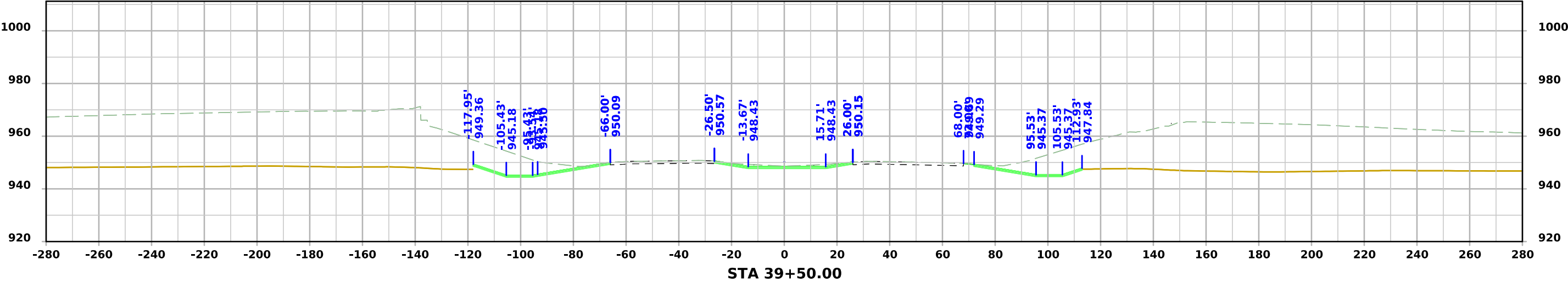
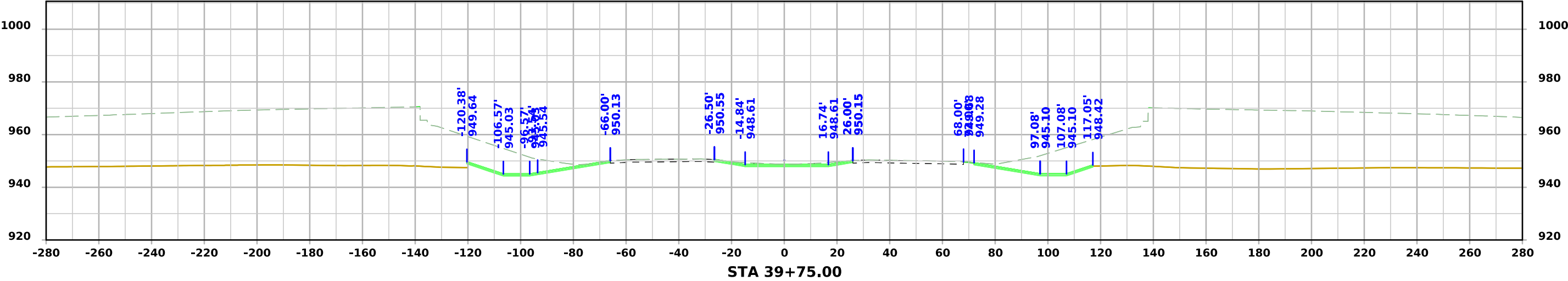
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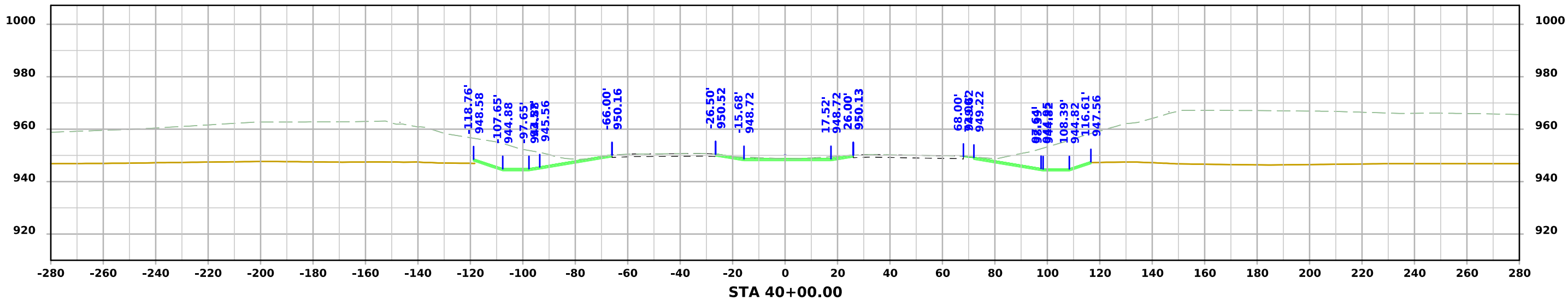
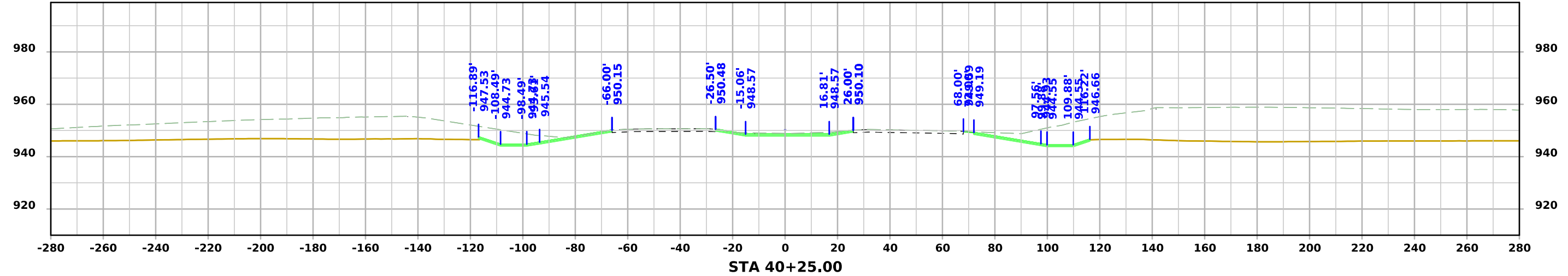
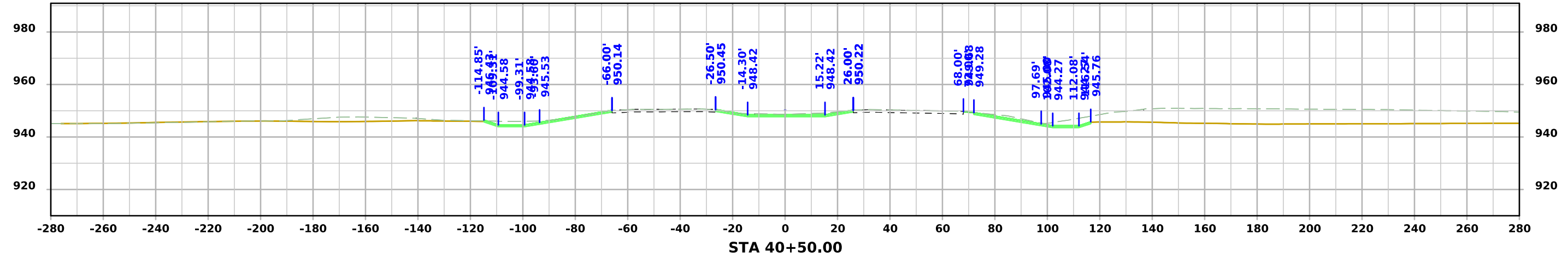




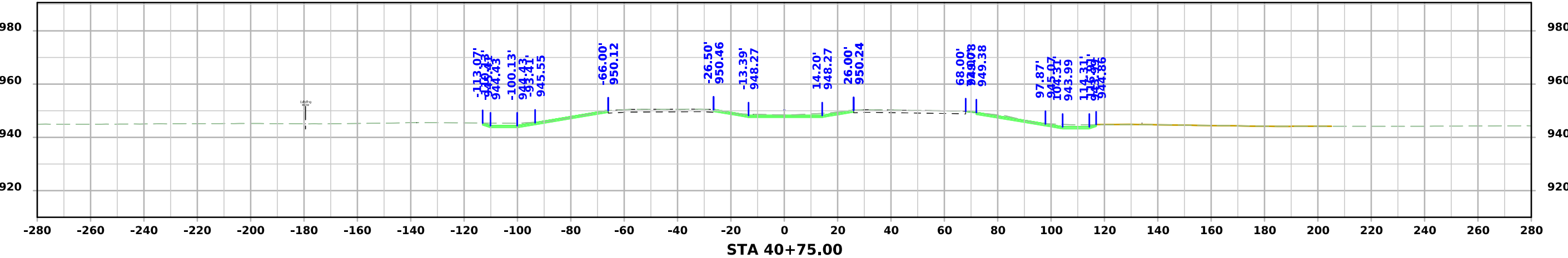
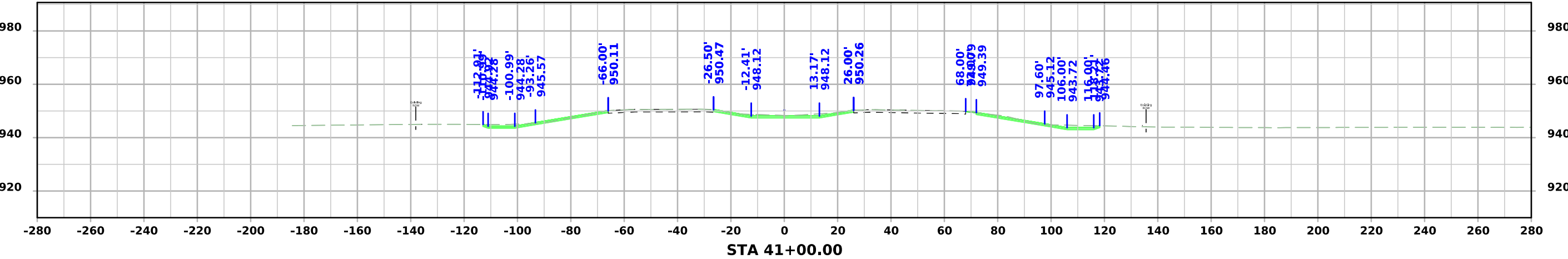
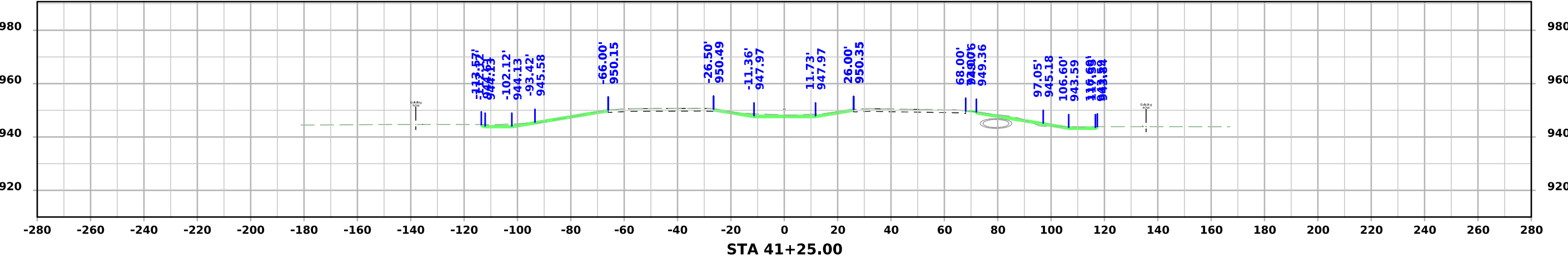
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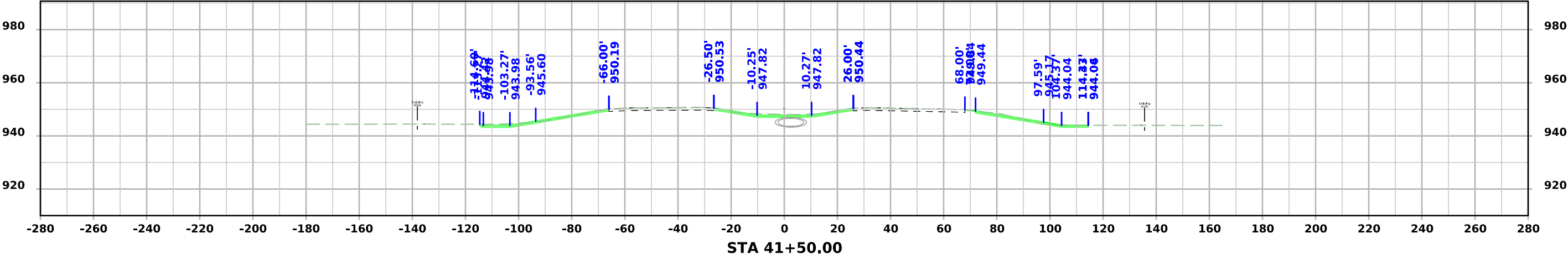
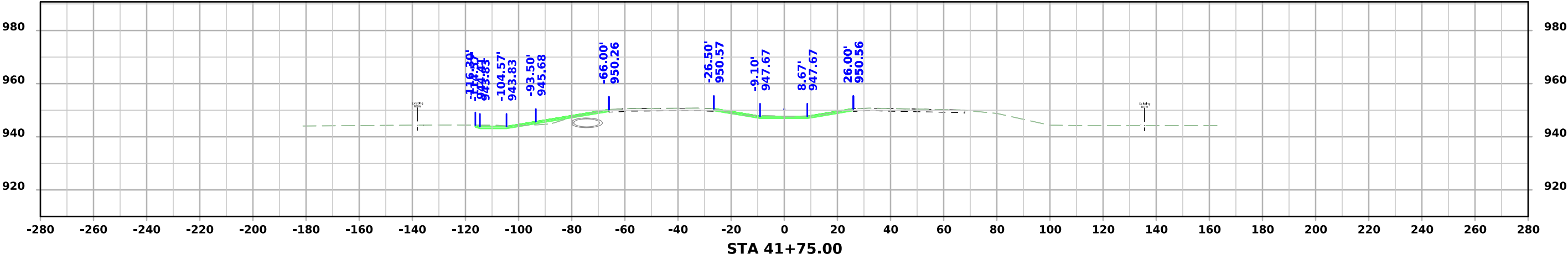
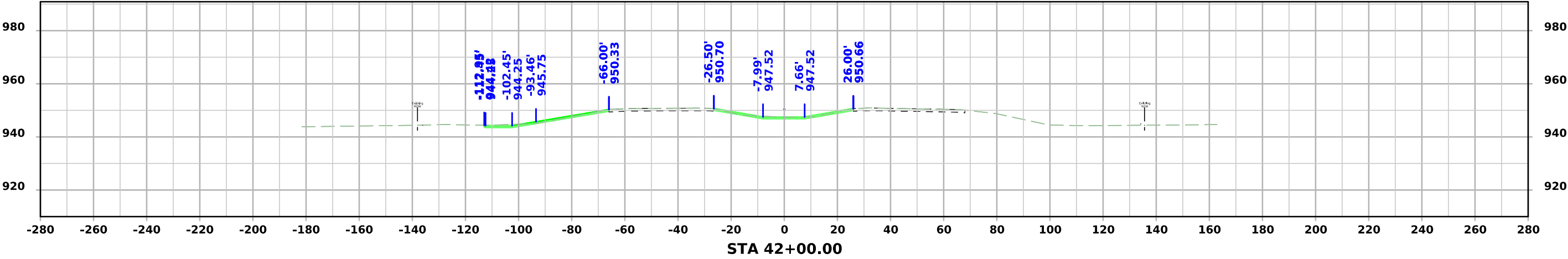


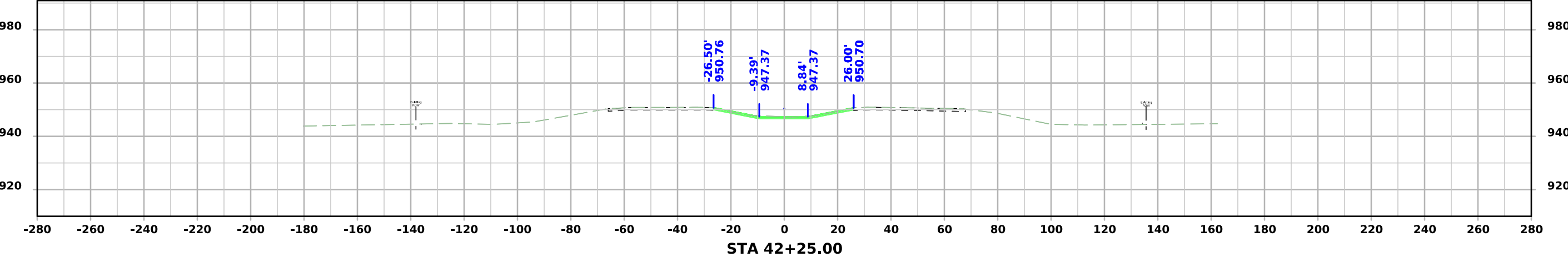
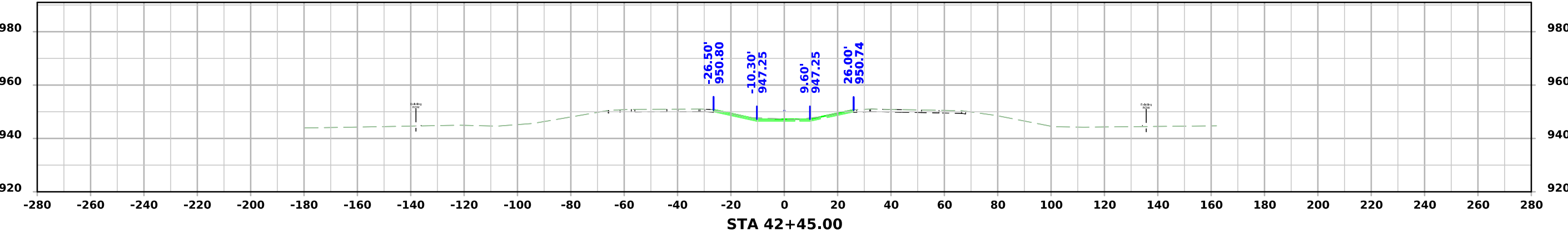
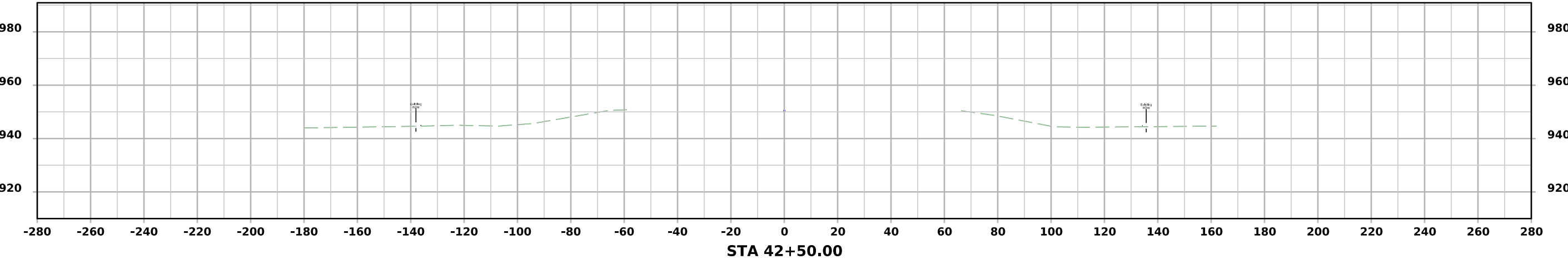
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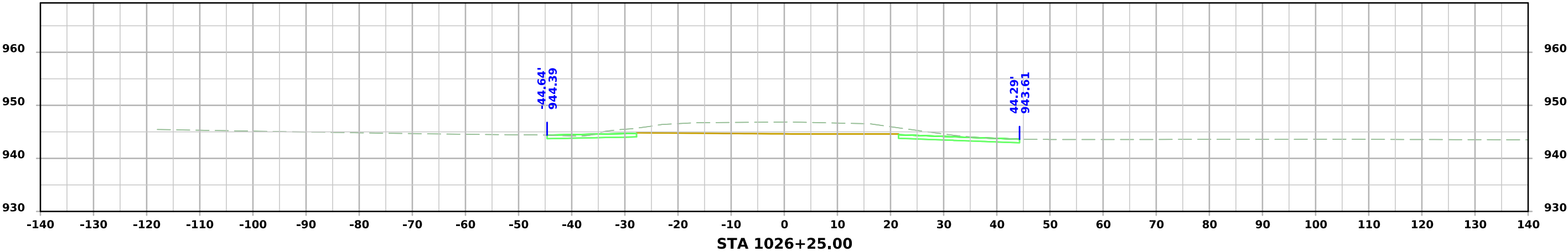
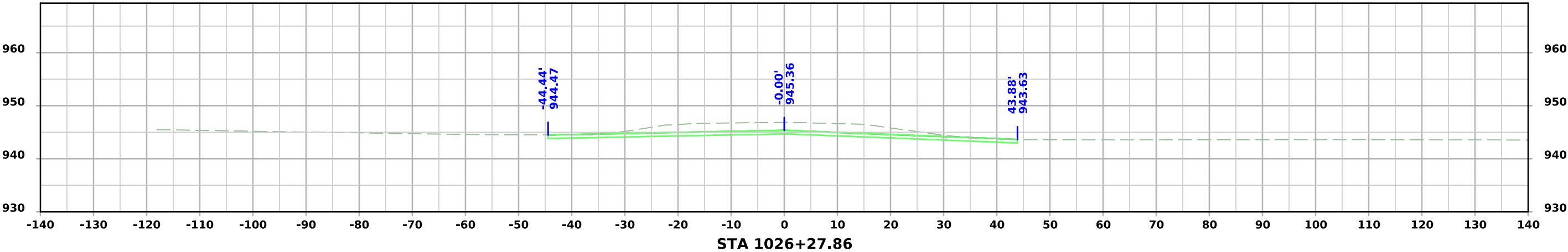
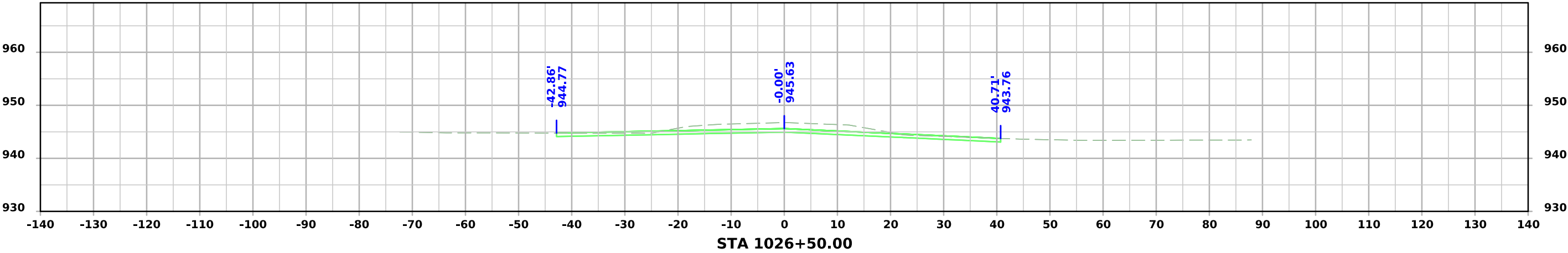
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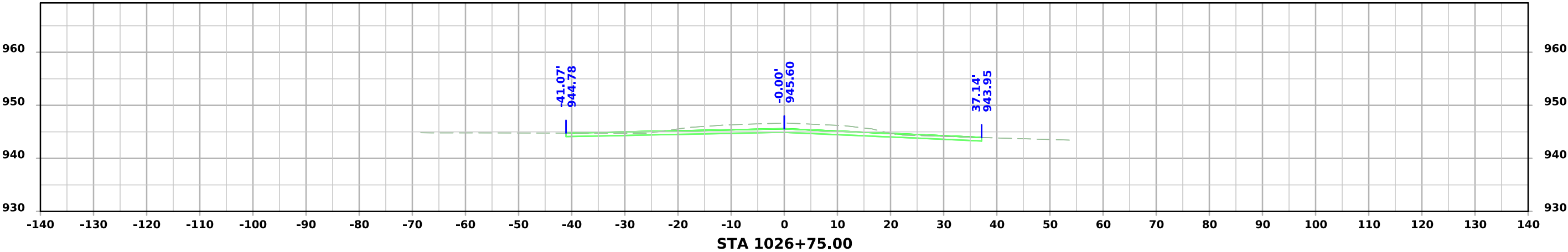
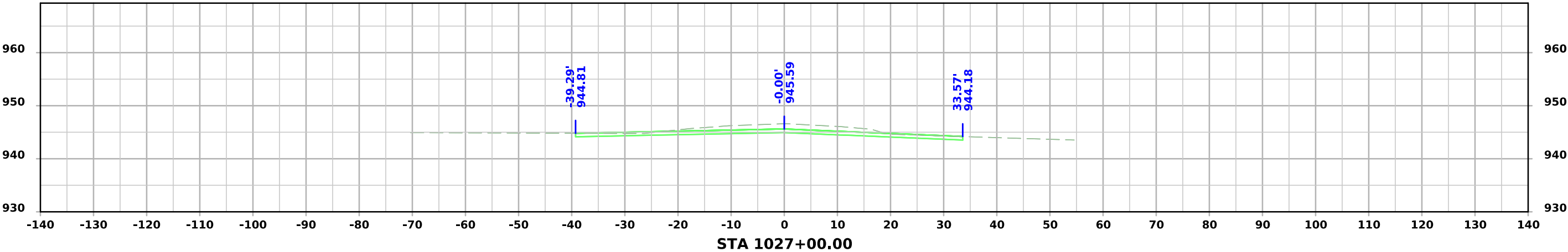
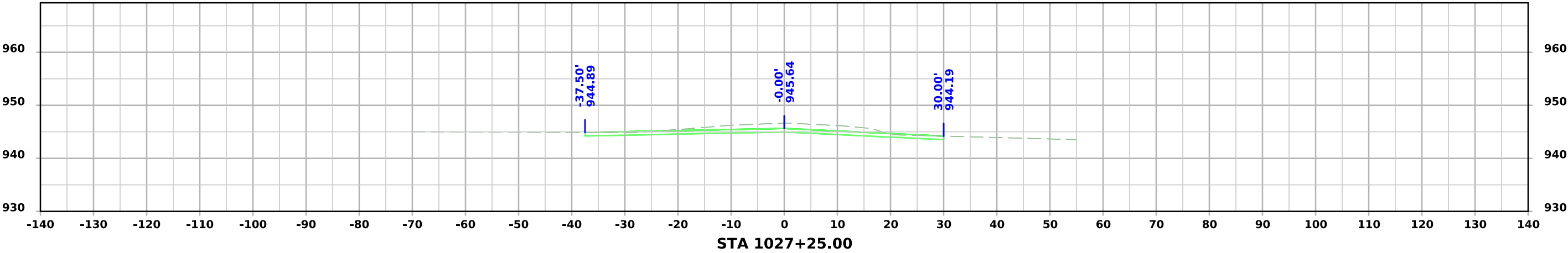




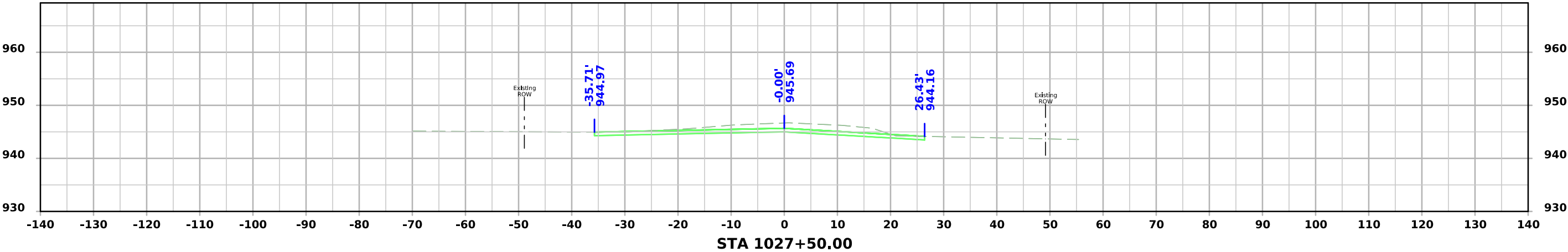
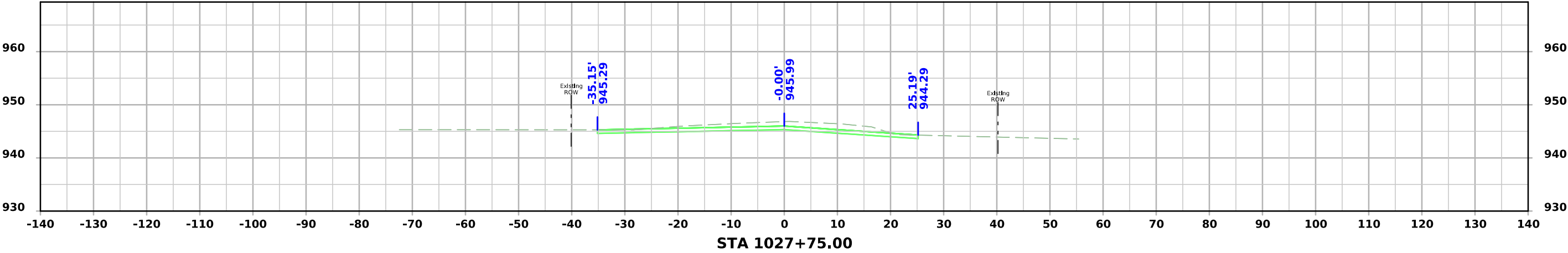
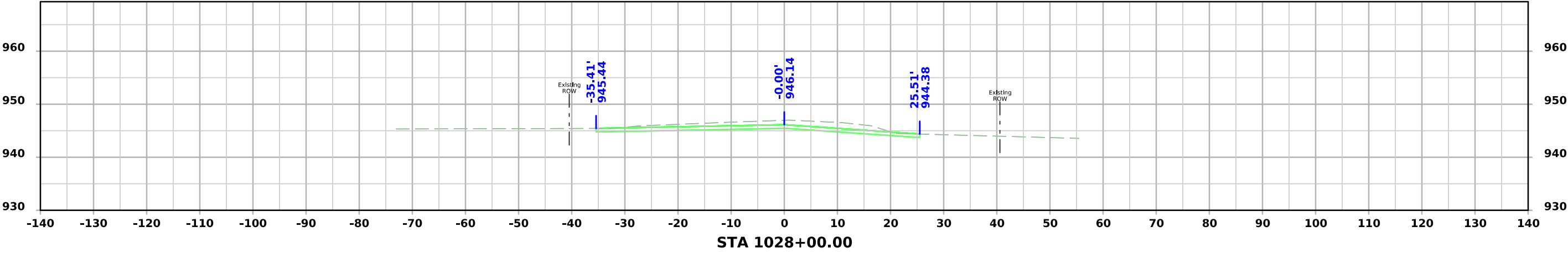
Rist Ave



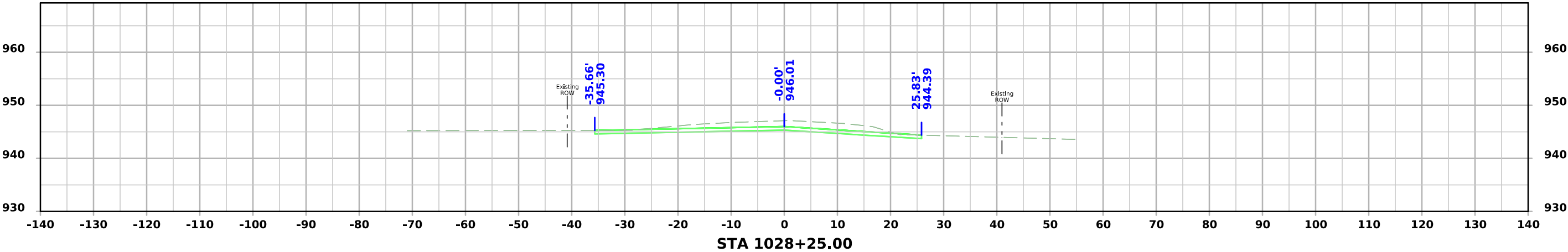
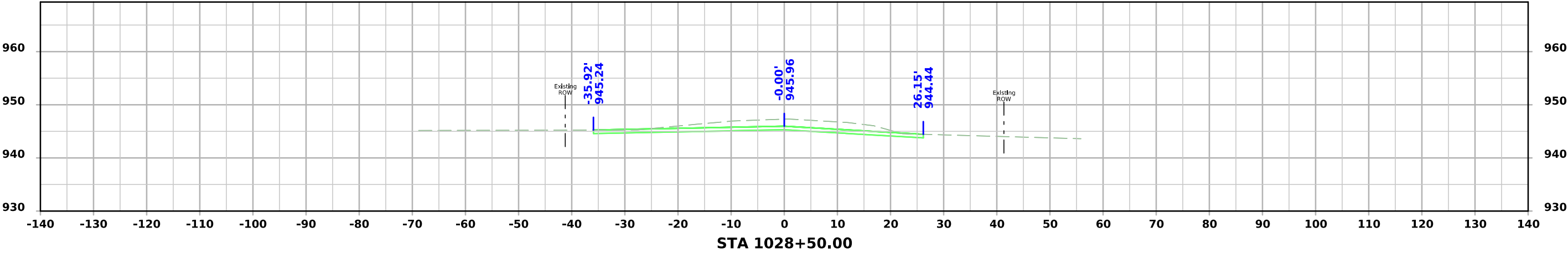
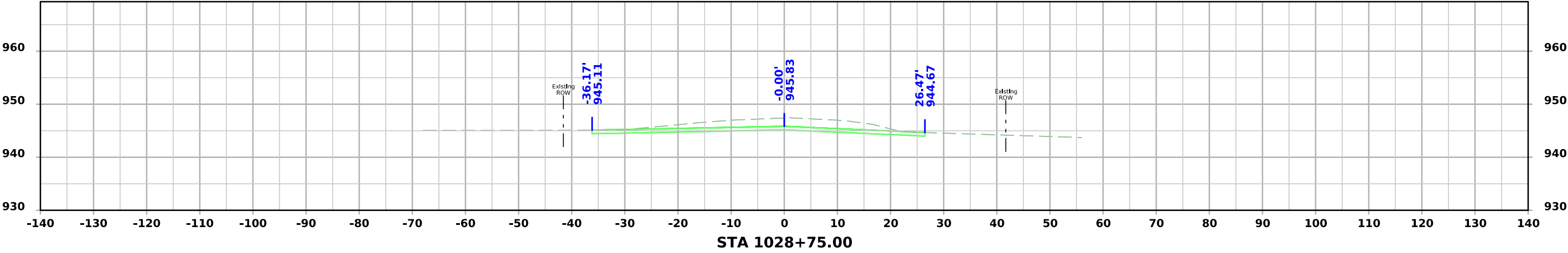
Rist Ave



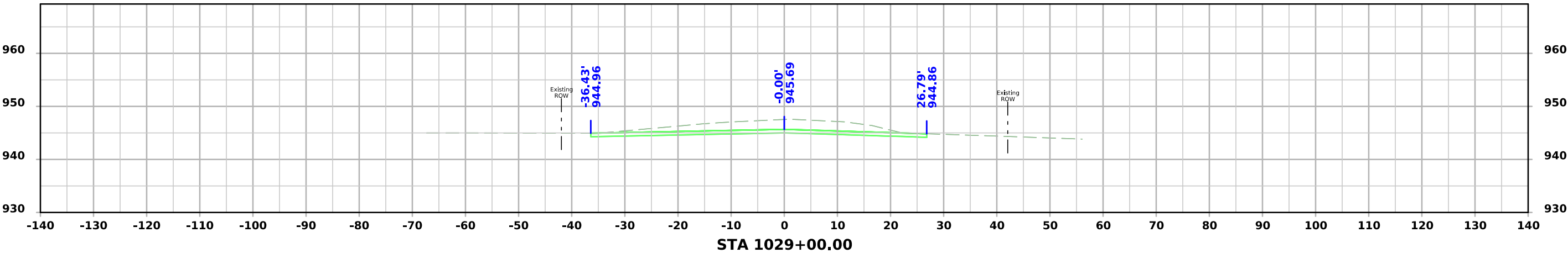
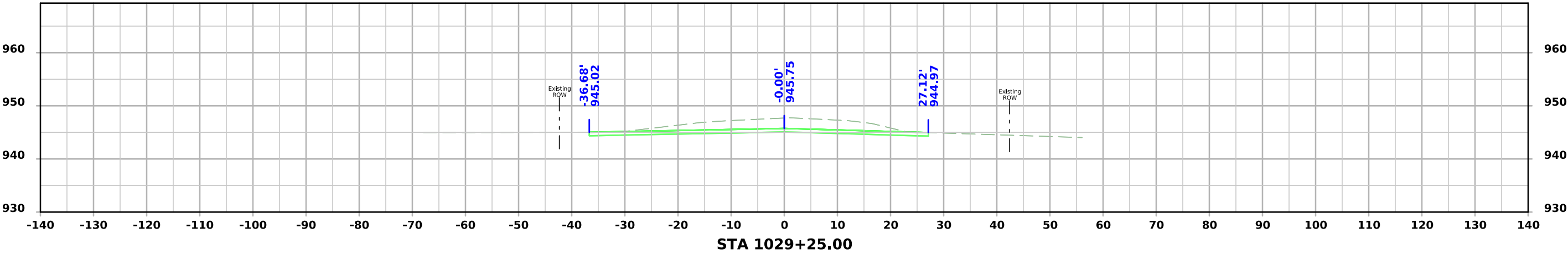
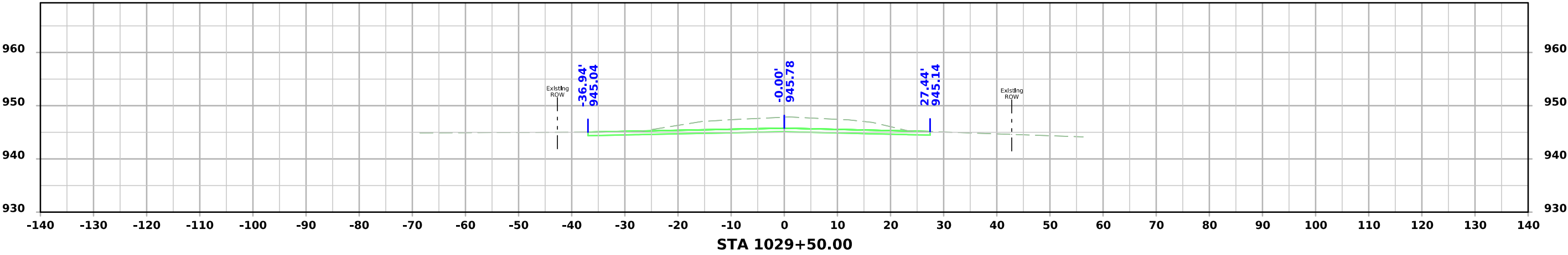
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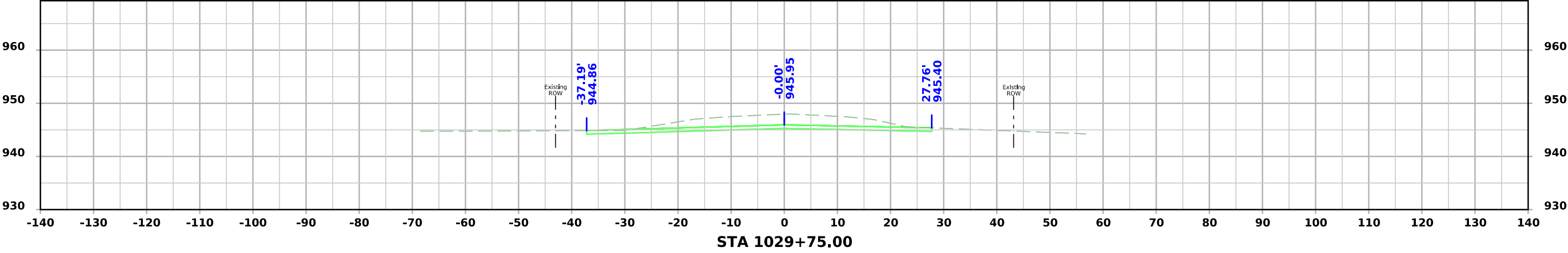
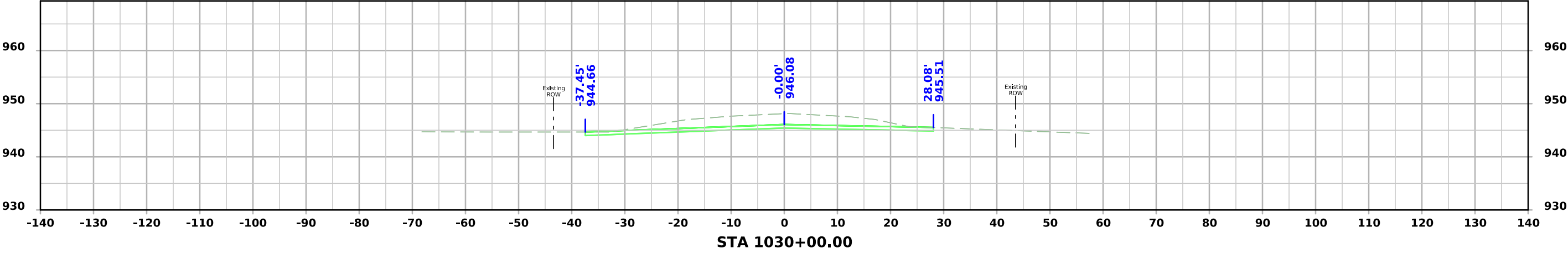
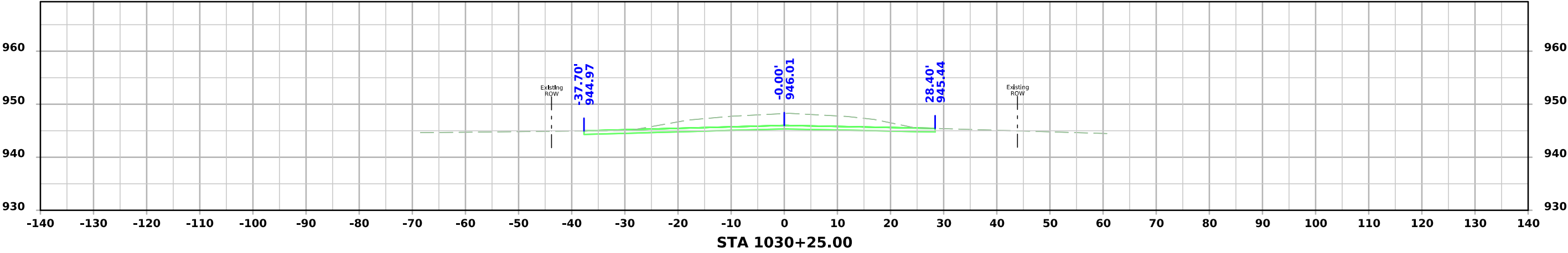
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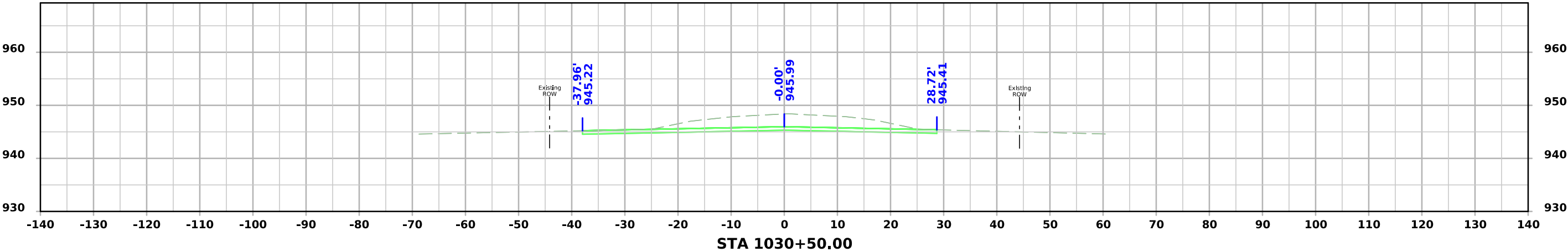
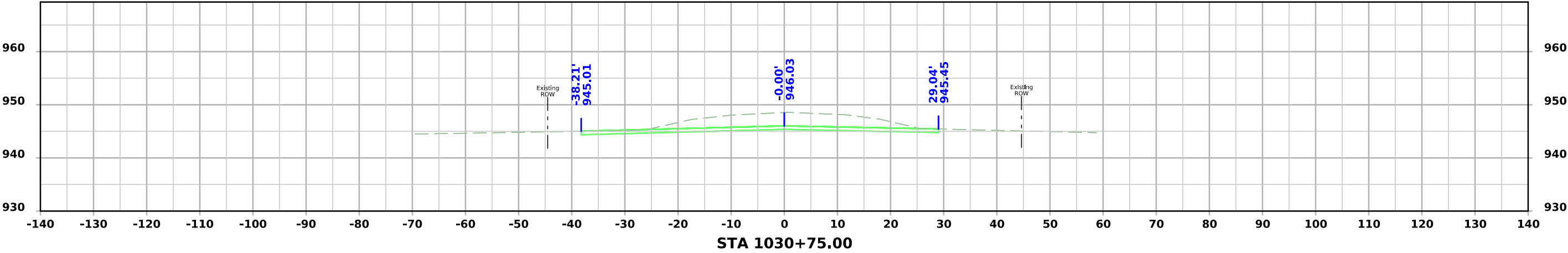
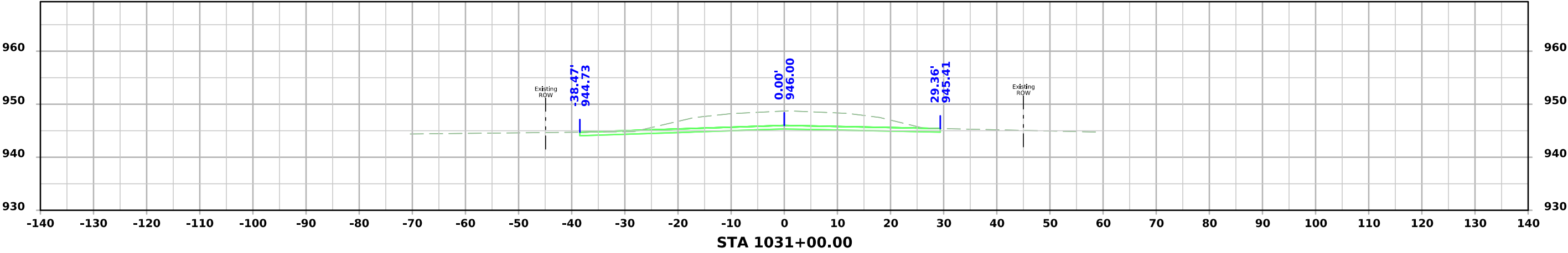
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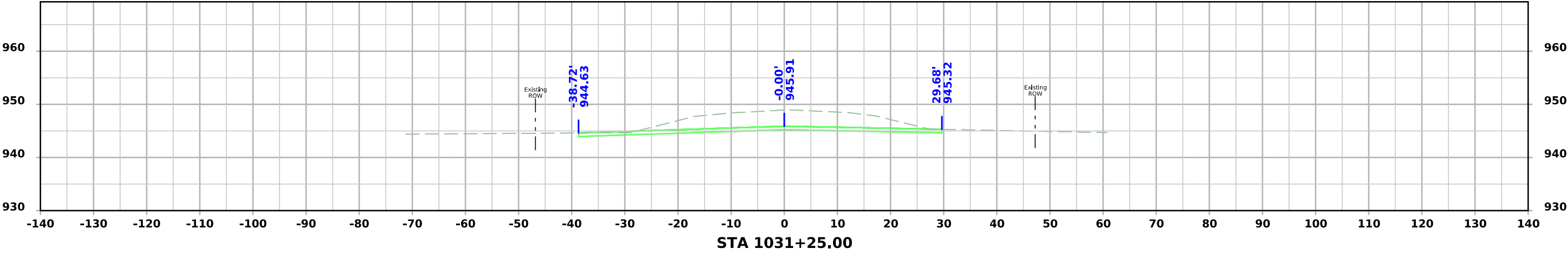
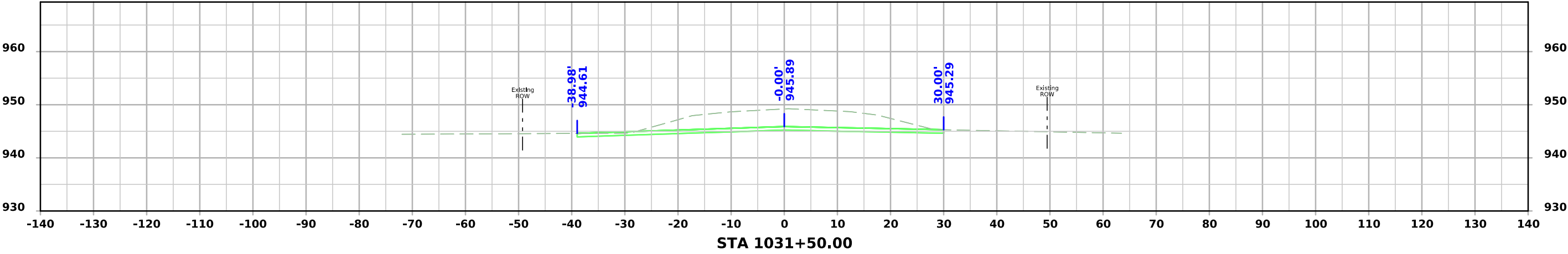
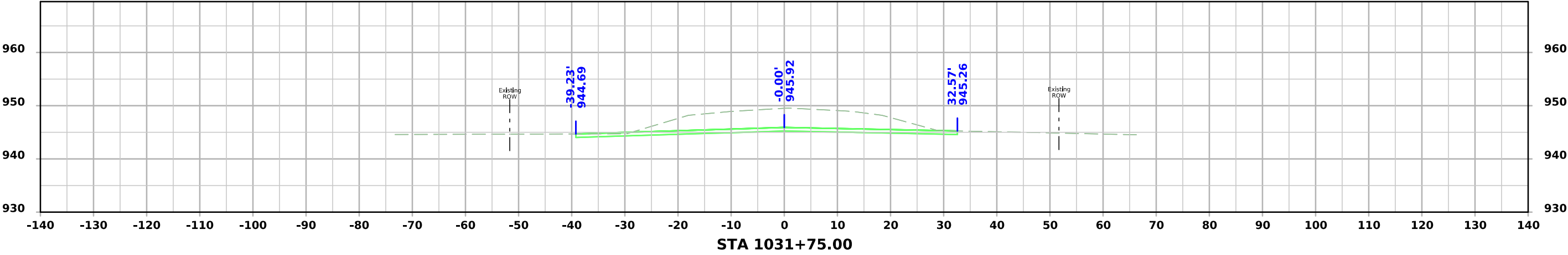
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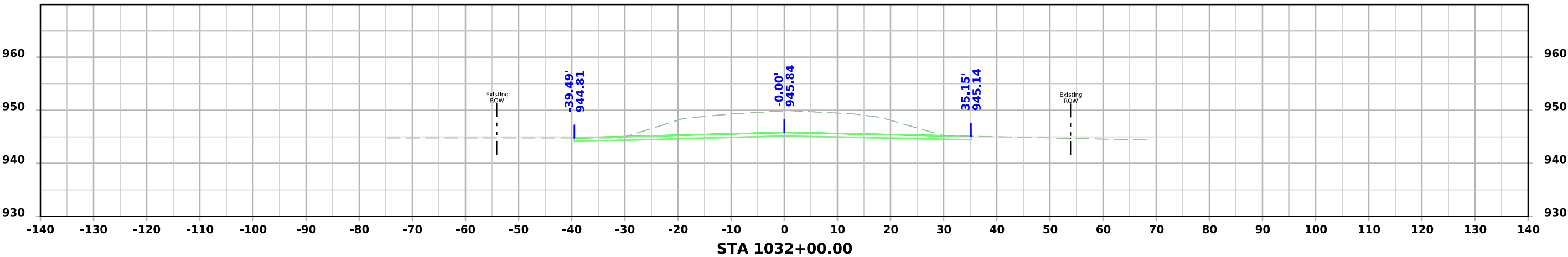
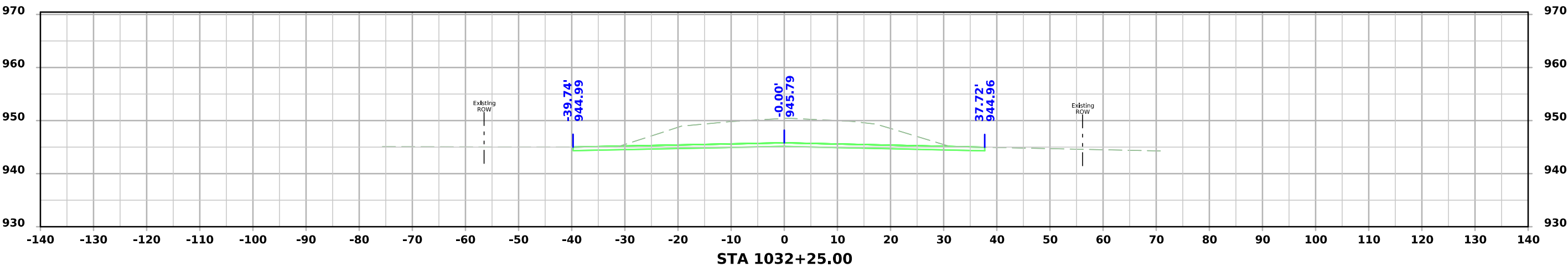
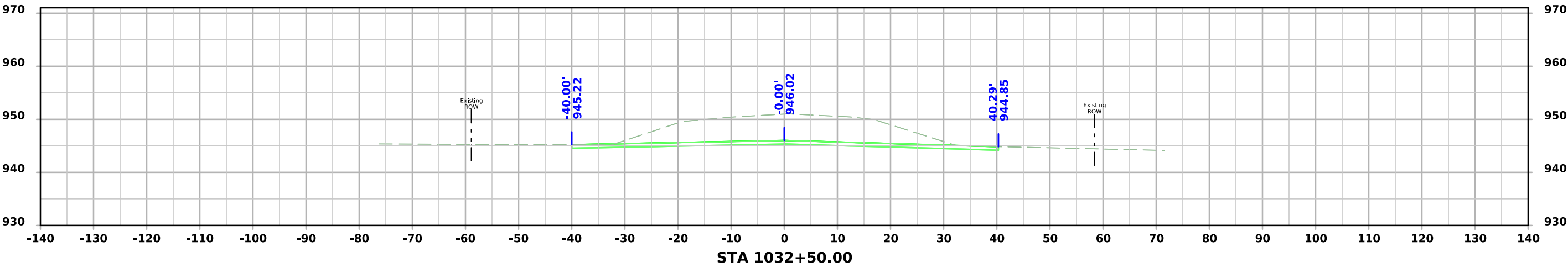
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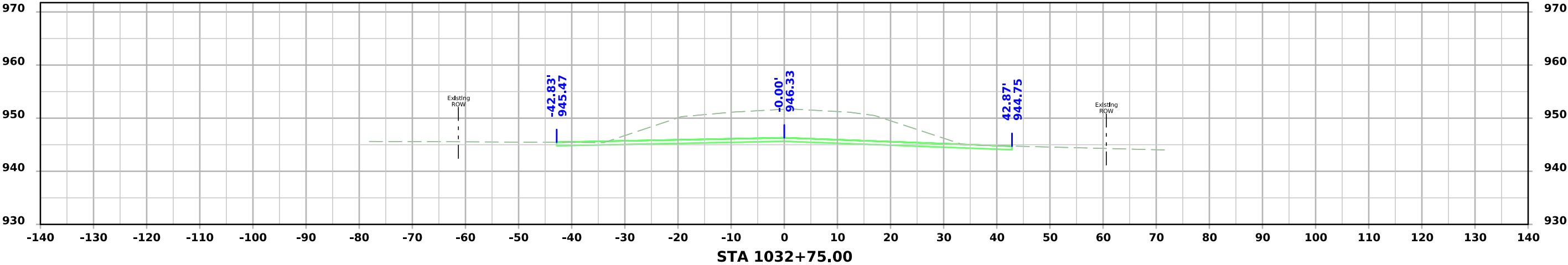
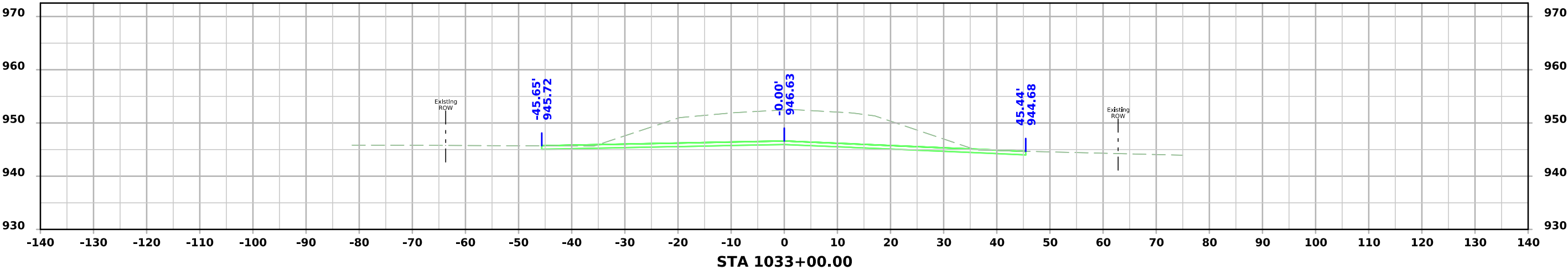
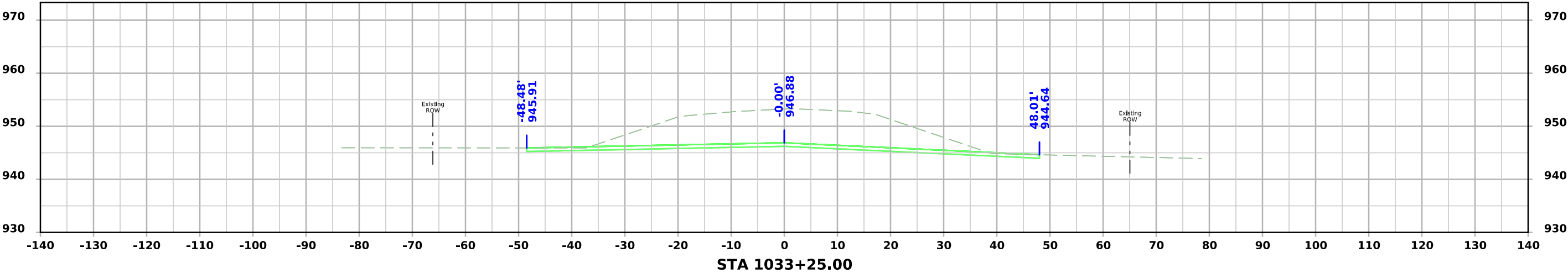
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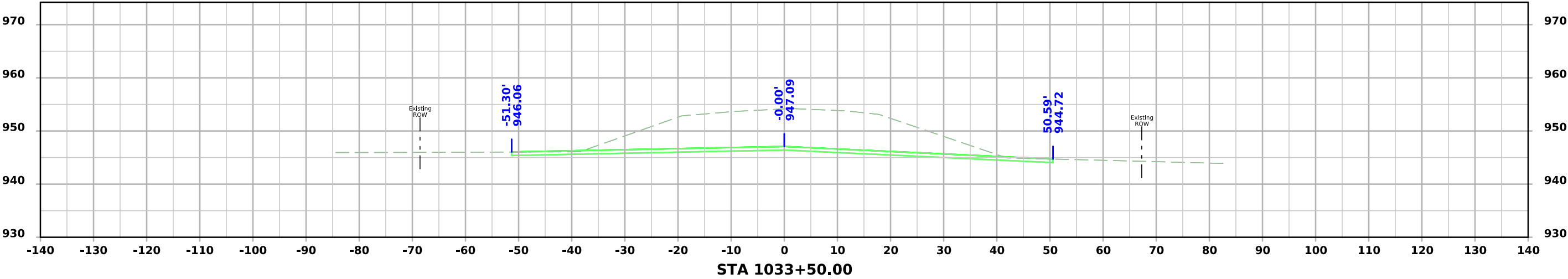
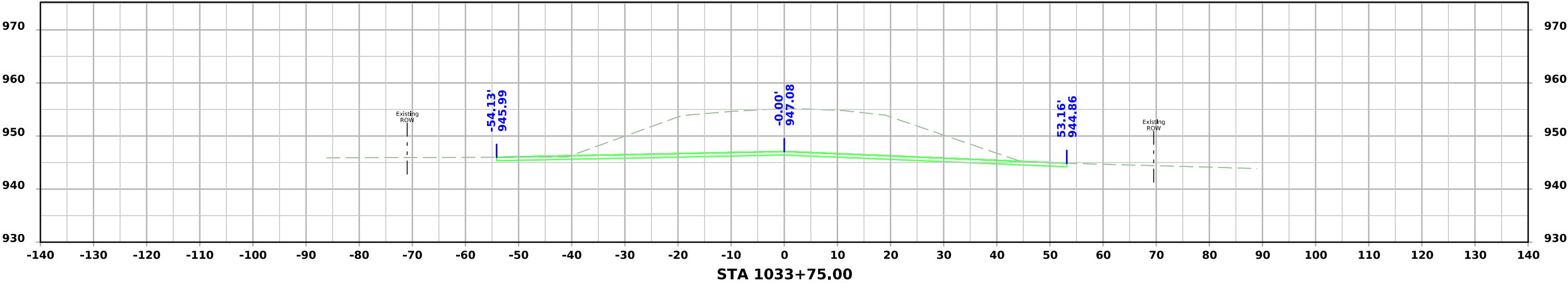
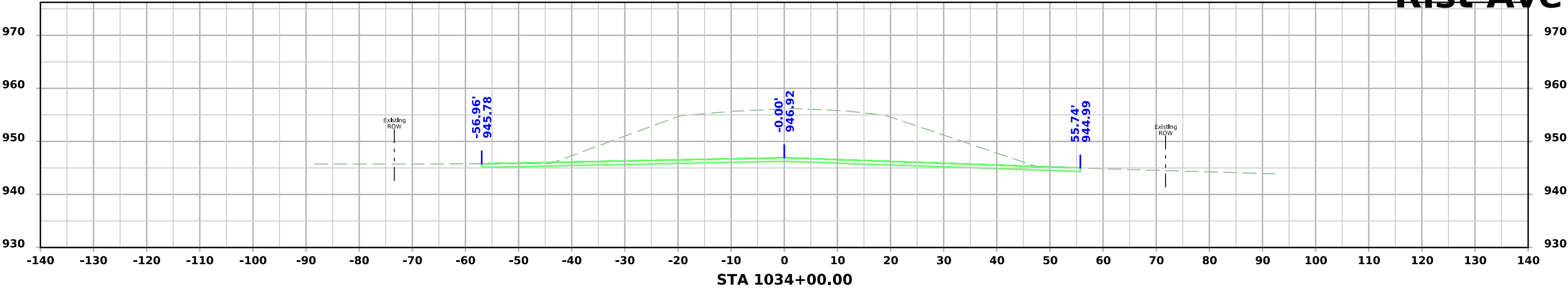
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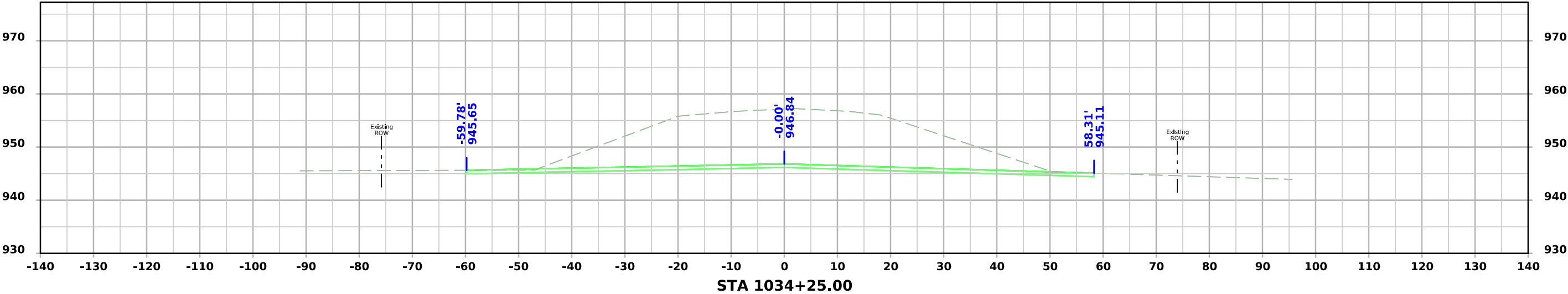
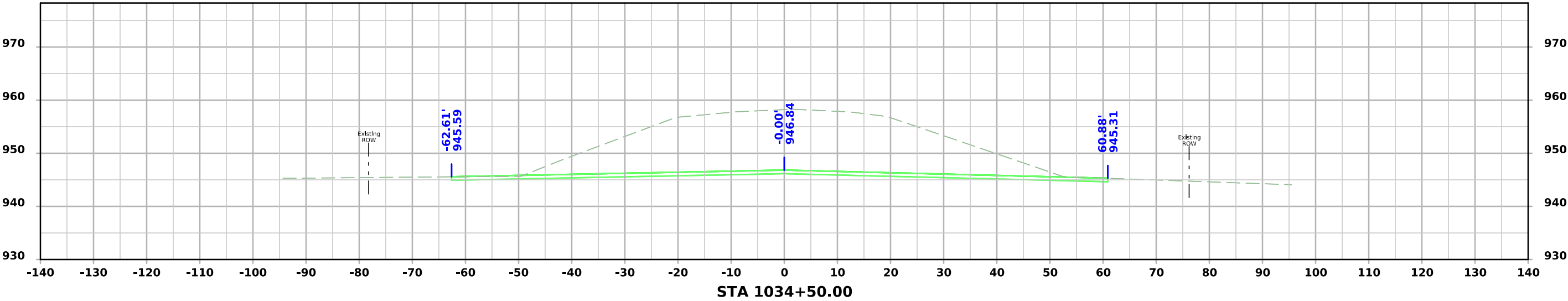
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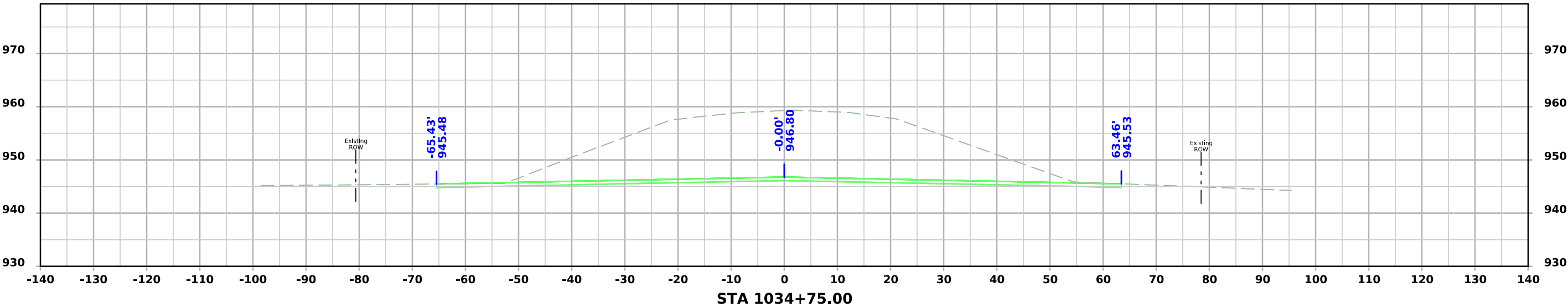
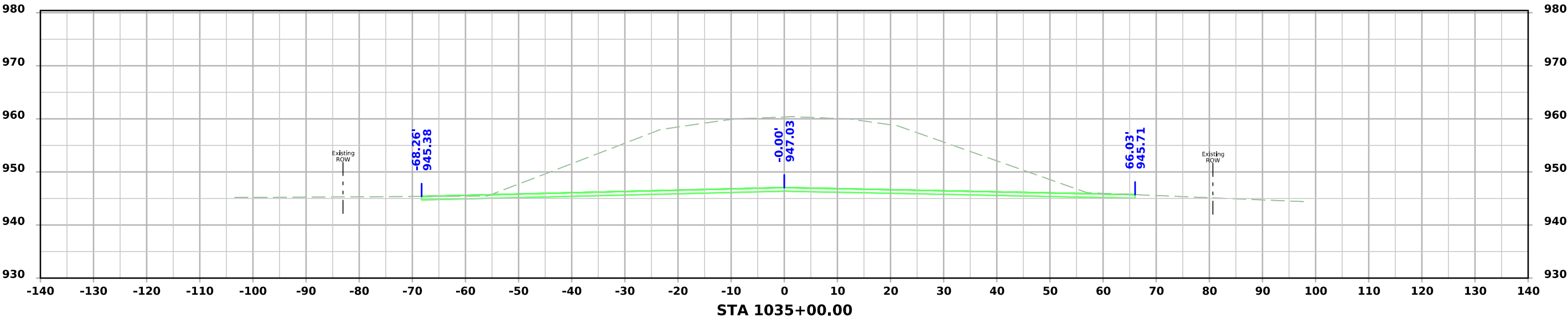
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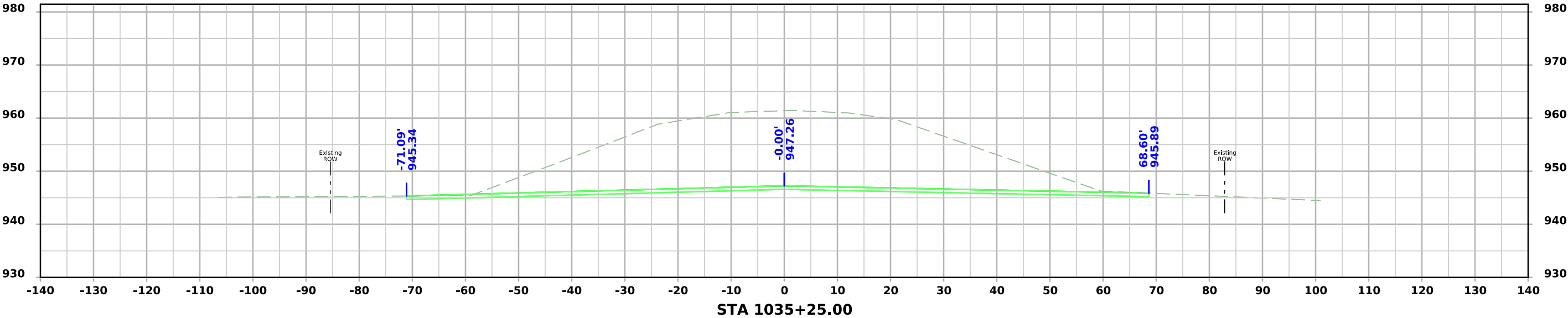
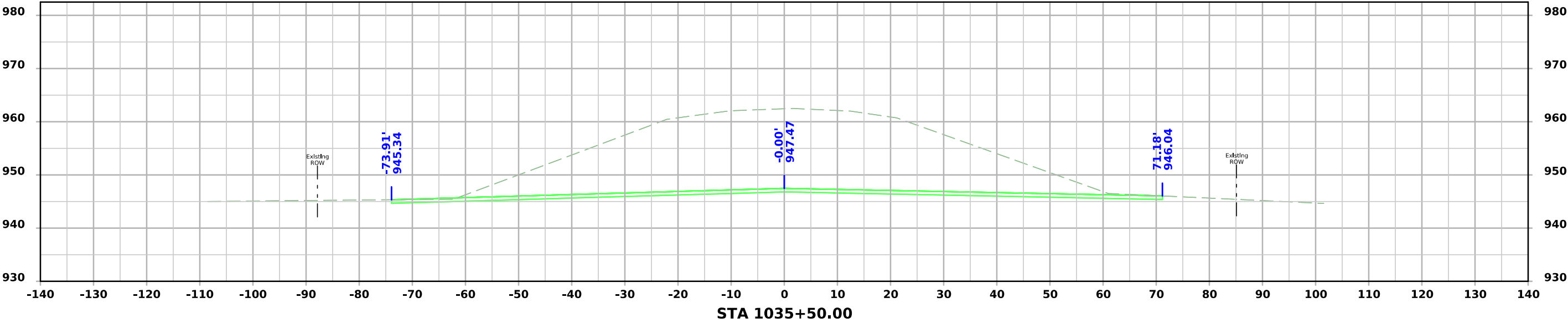
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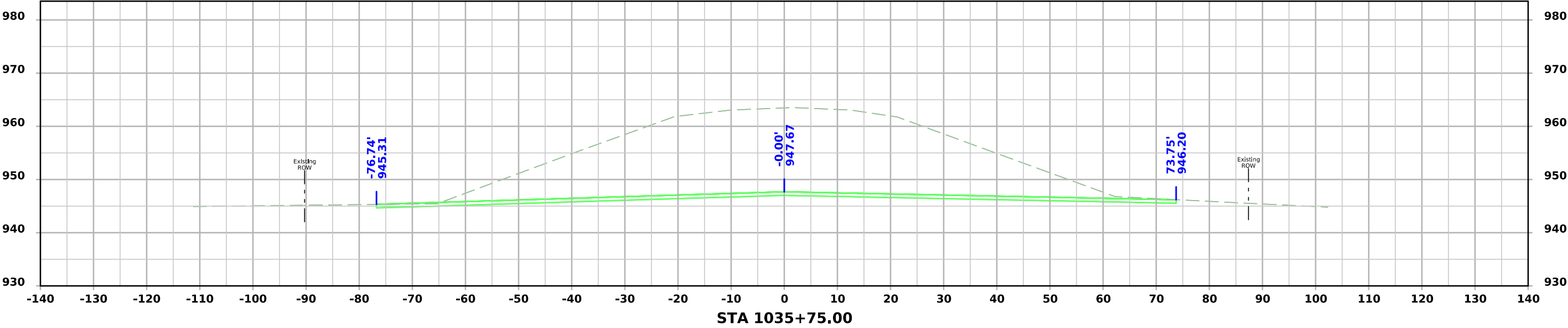
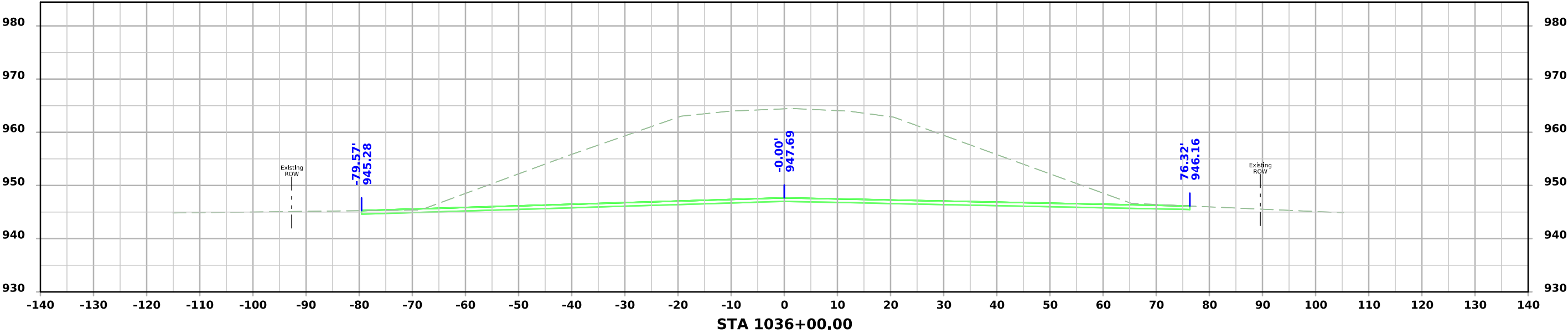
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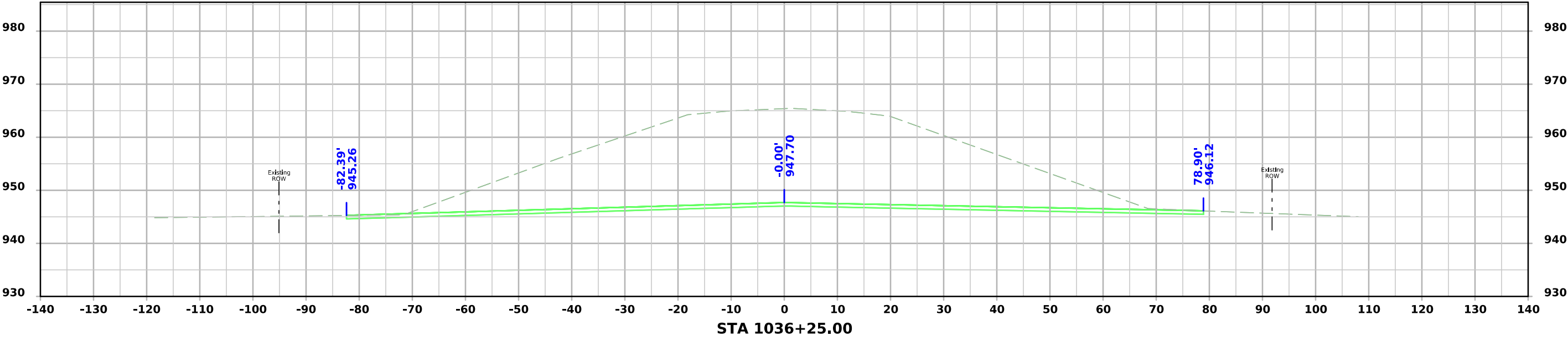
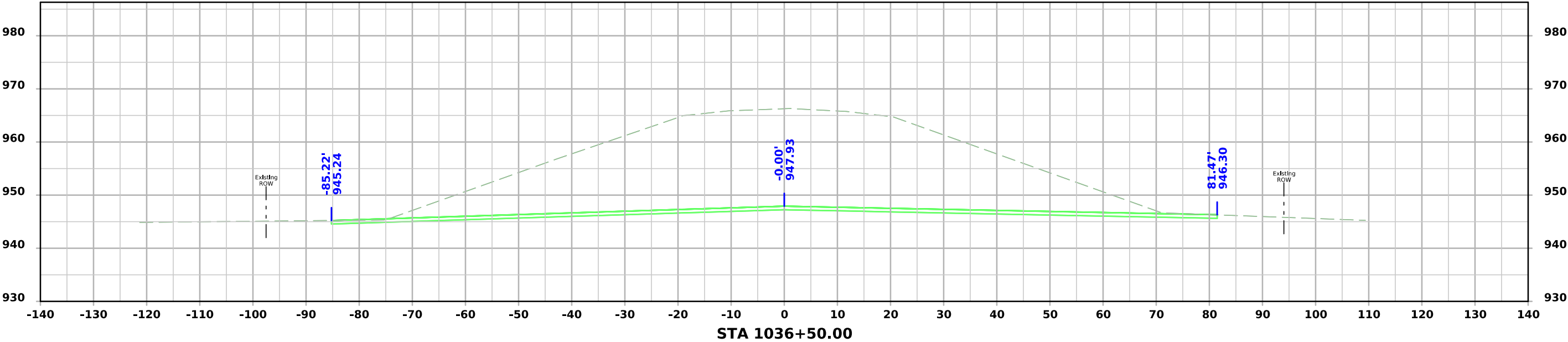
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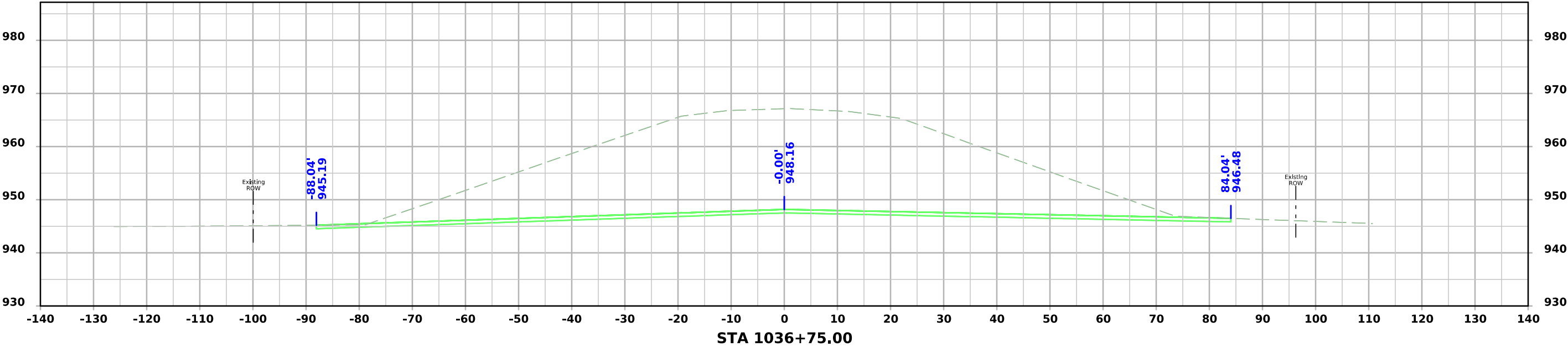
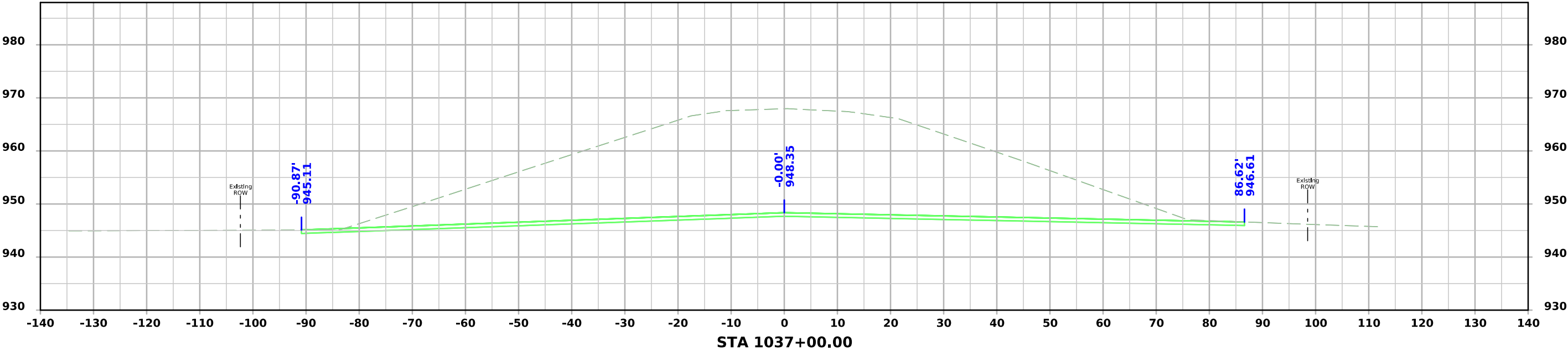
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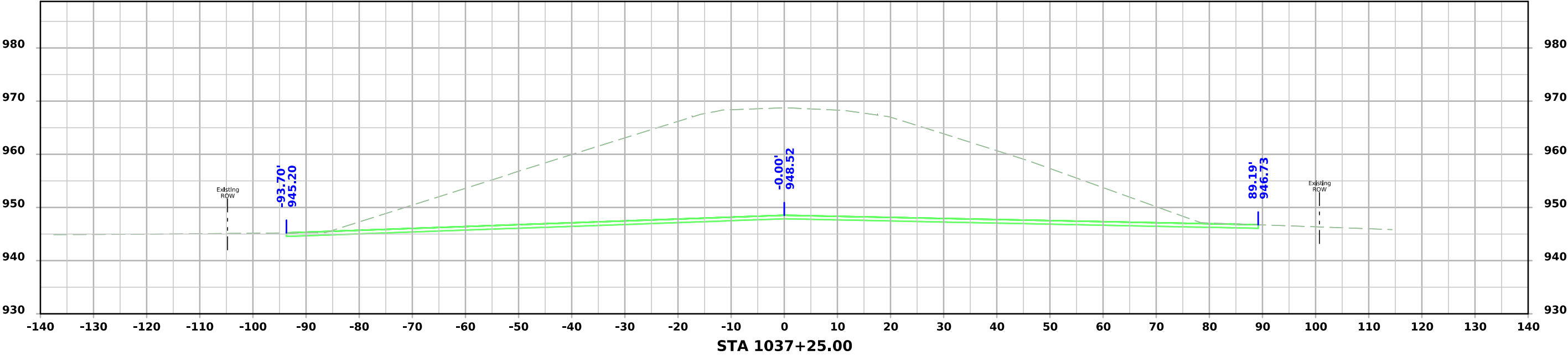
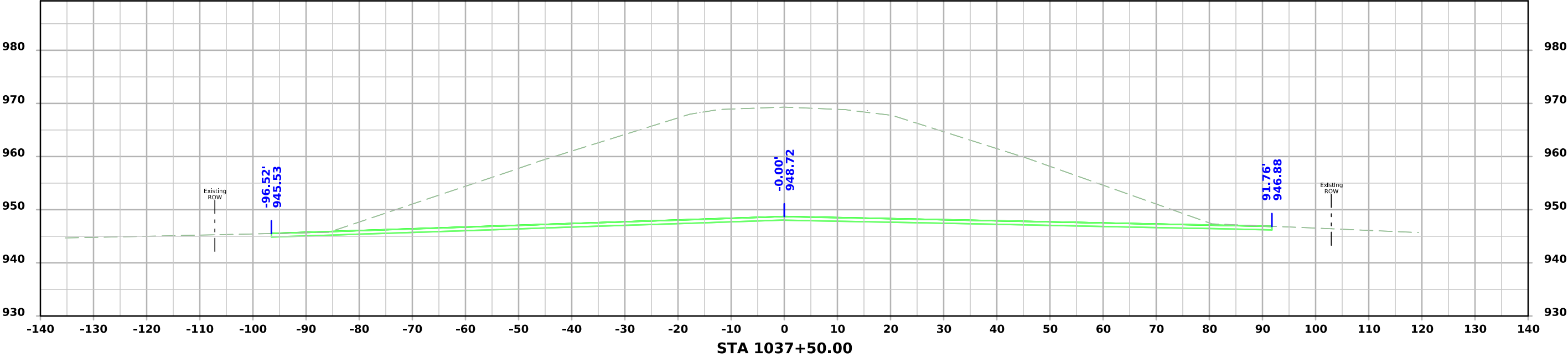
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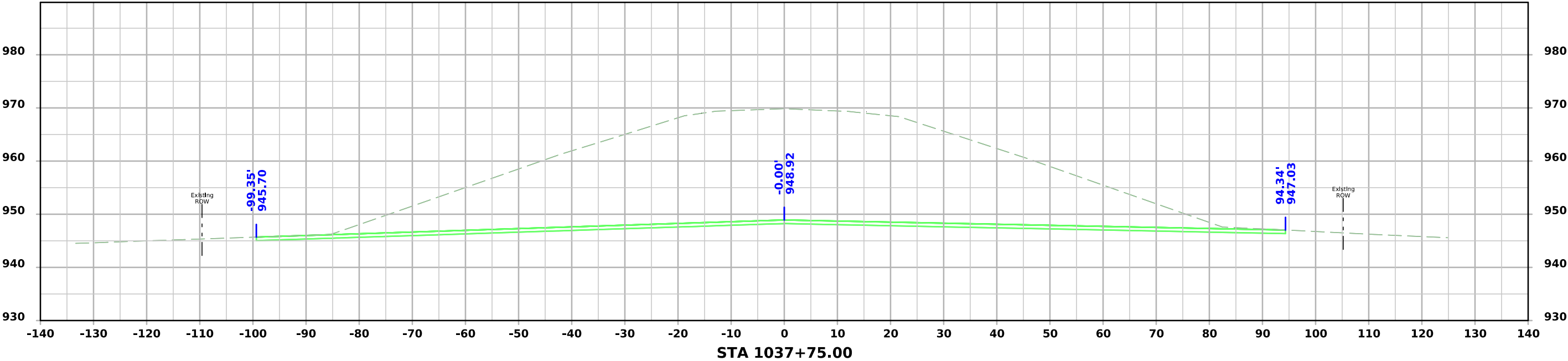
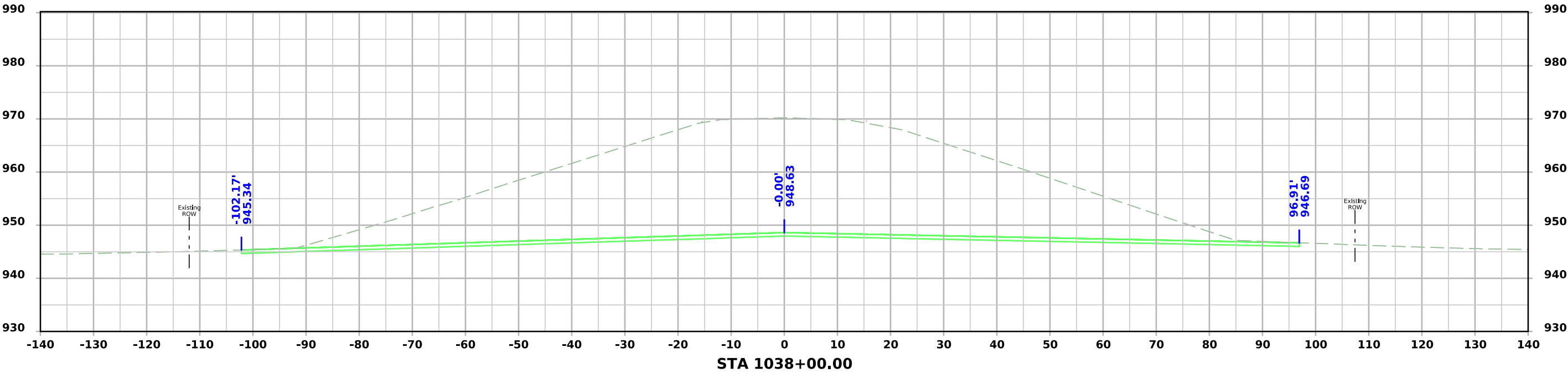
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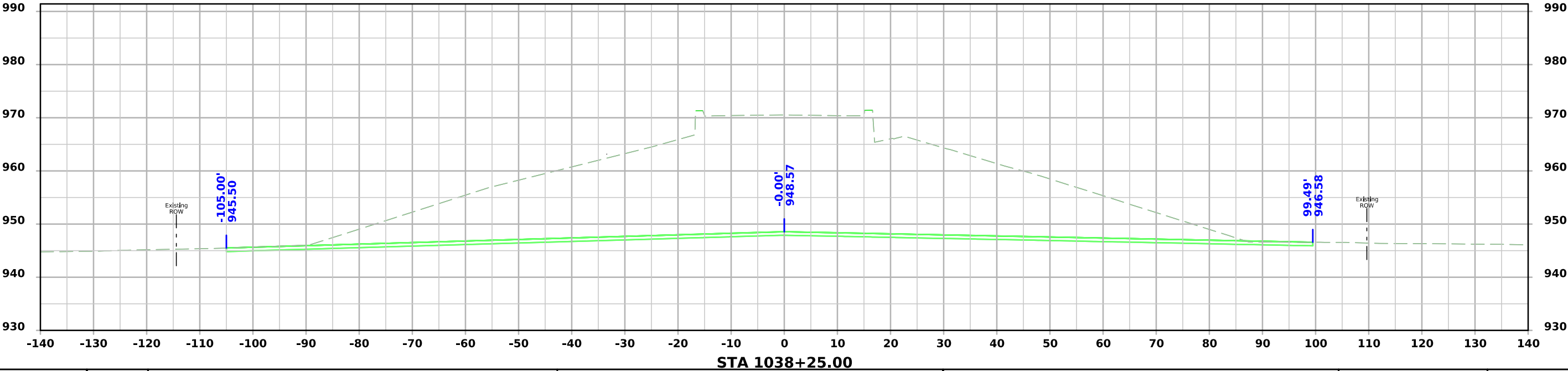
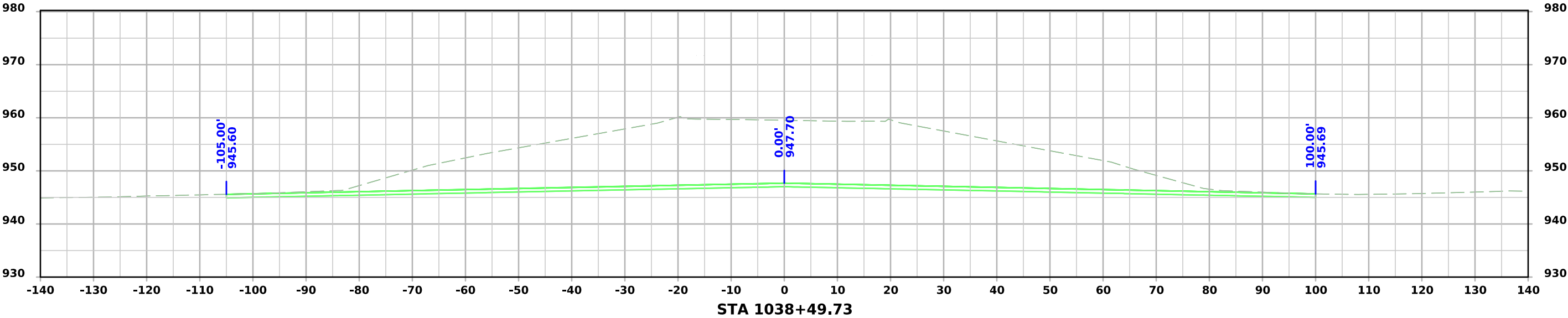
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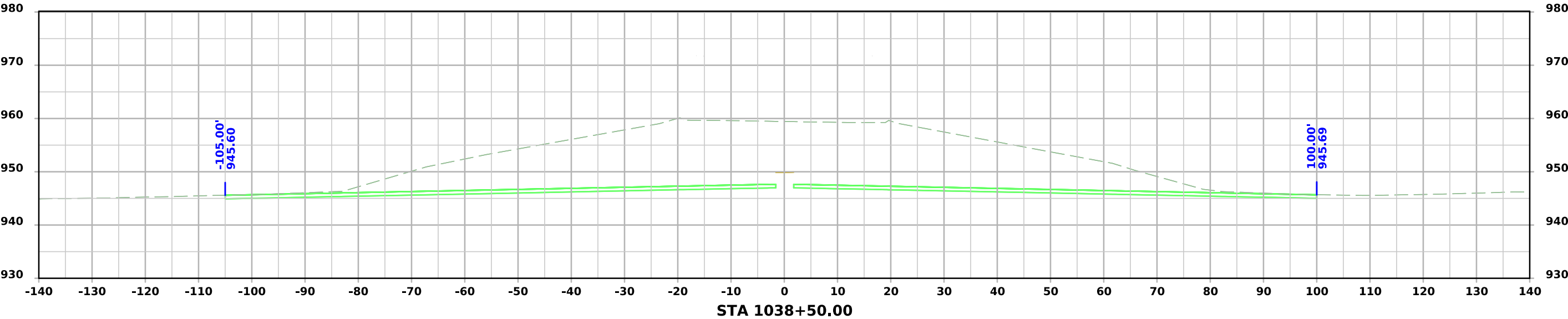
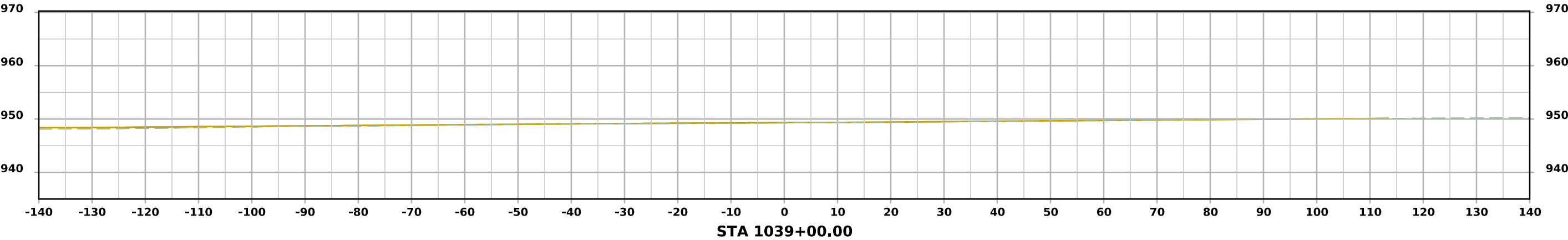
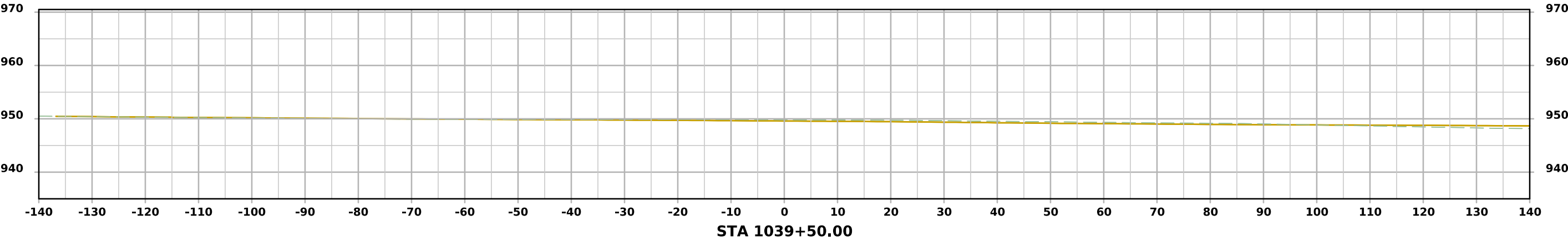
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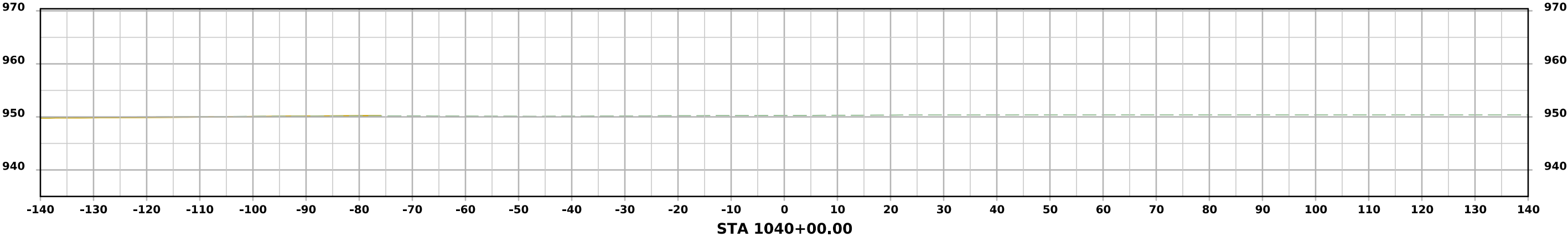
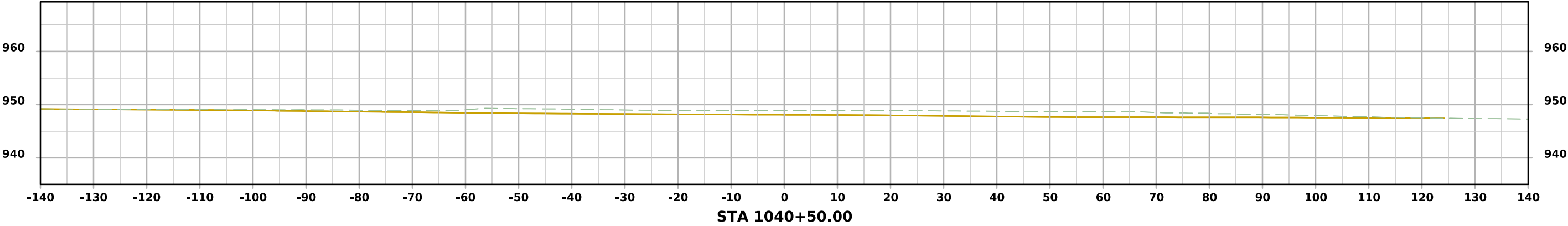
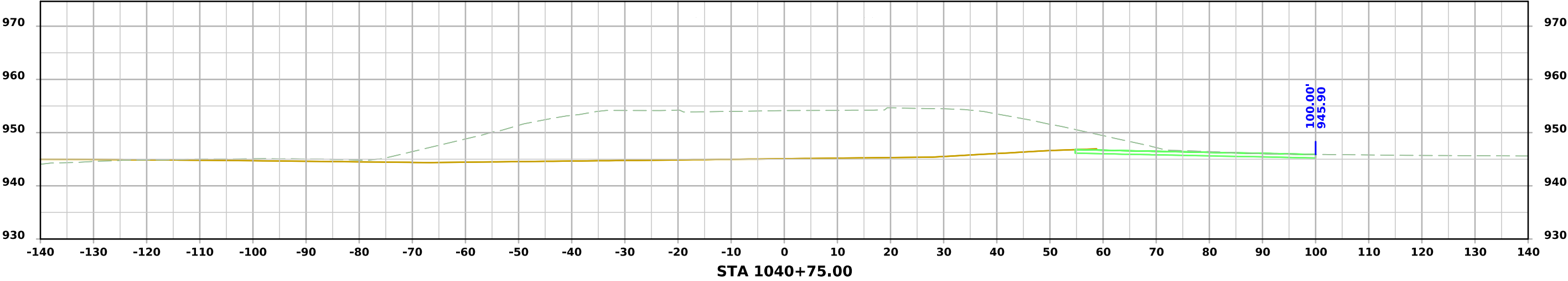
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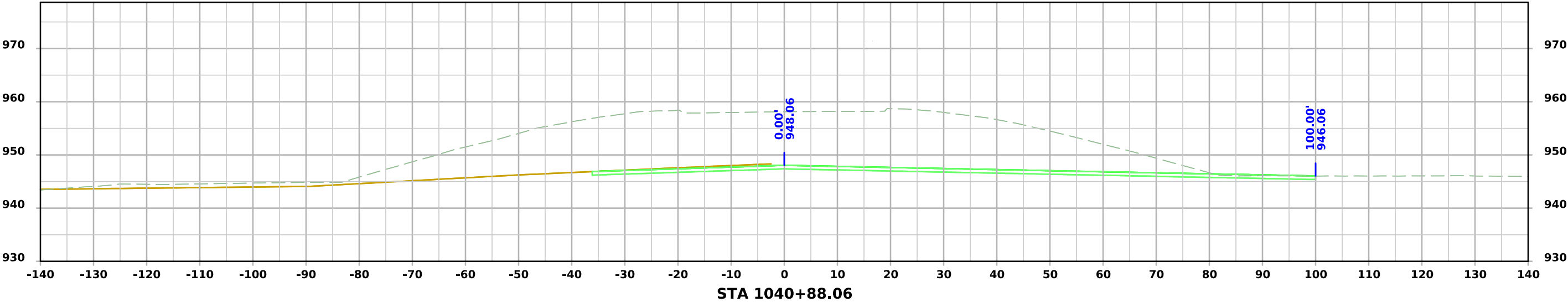
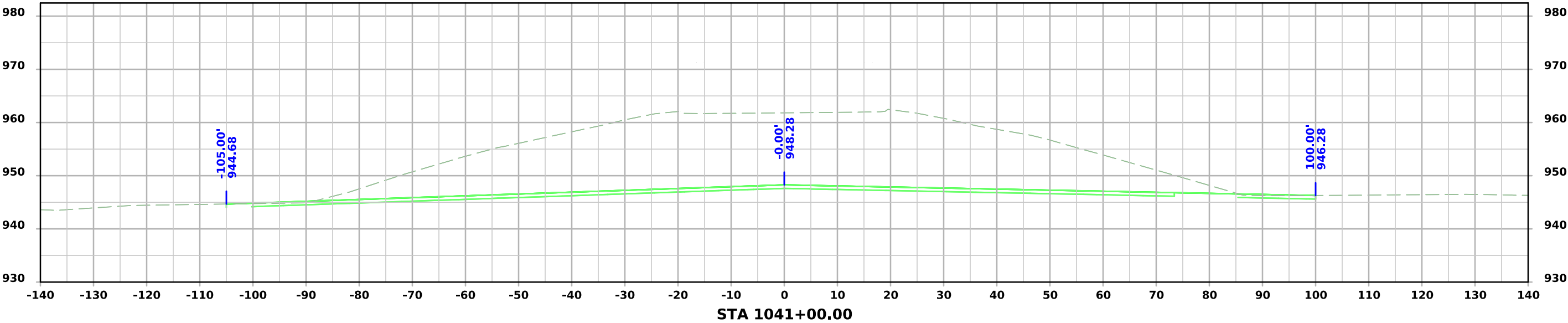
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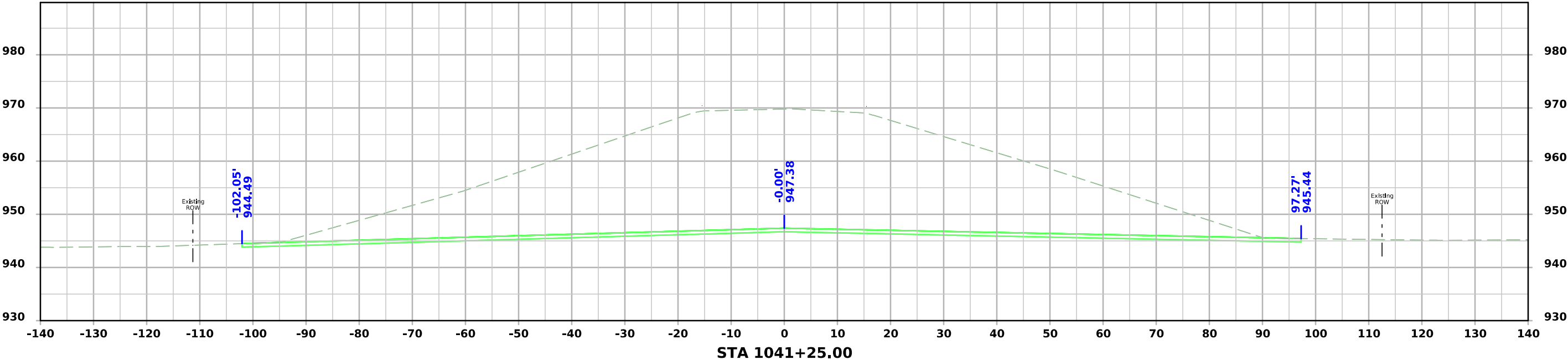
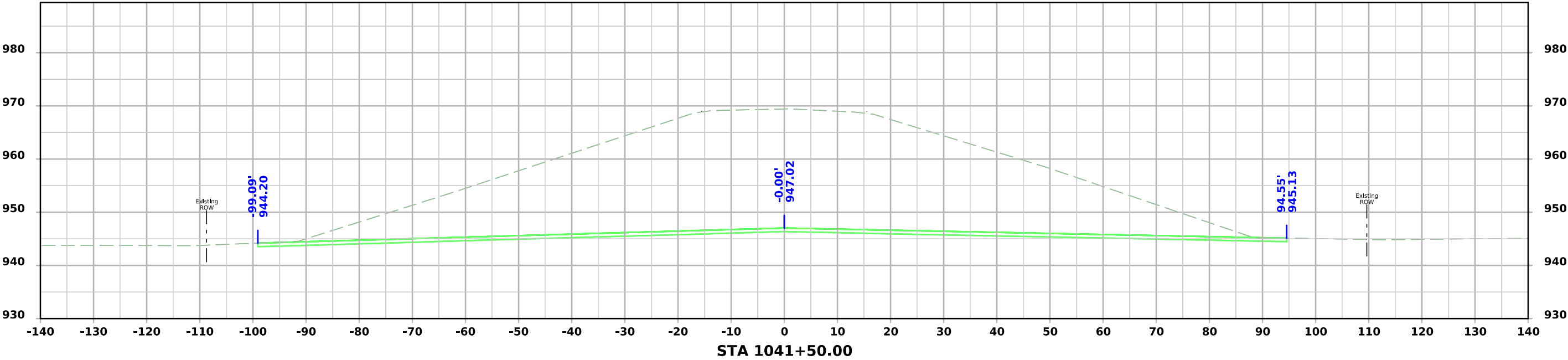
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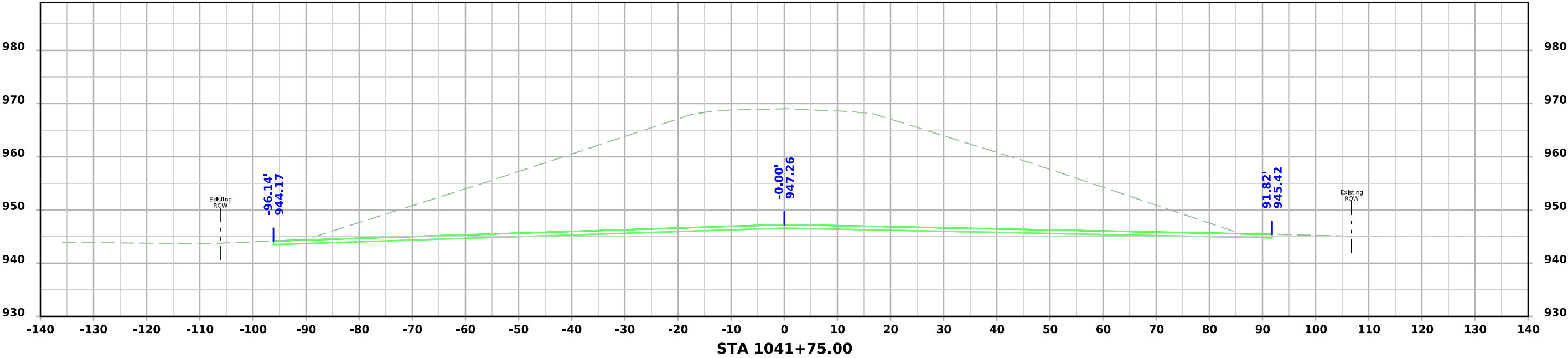
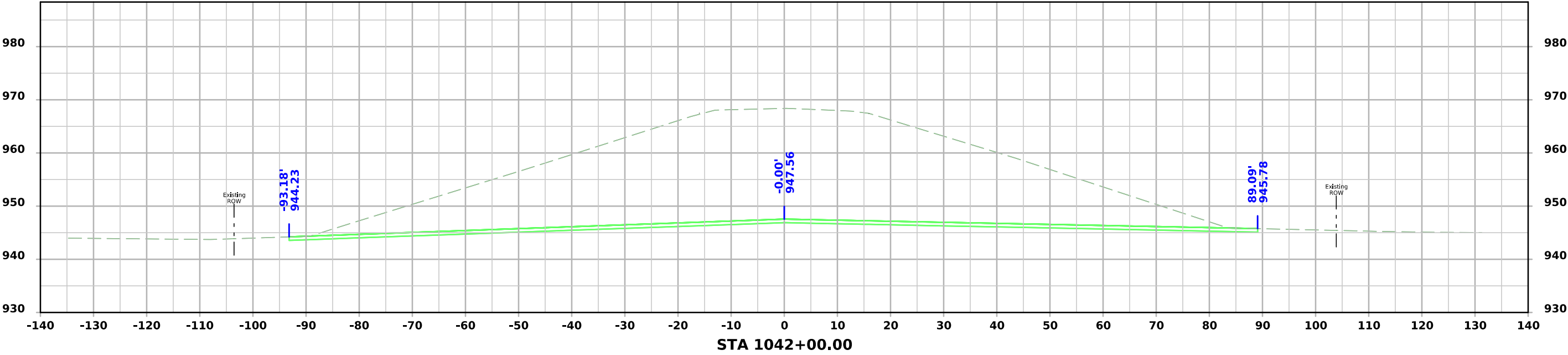
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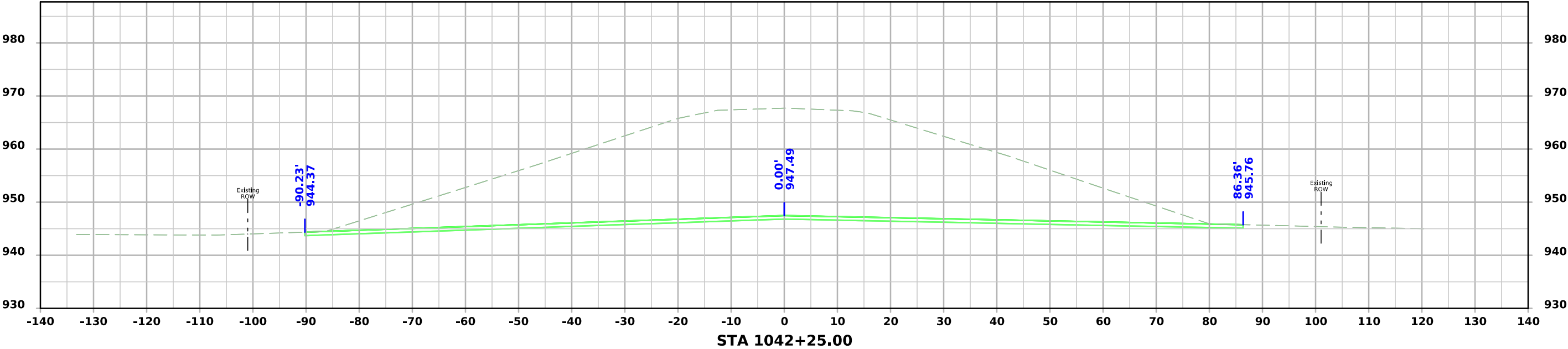
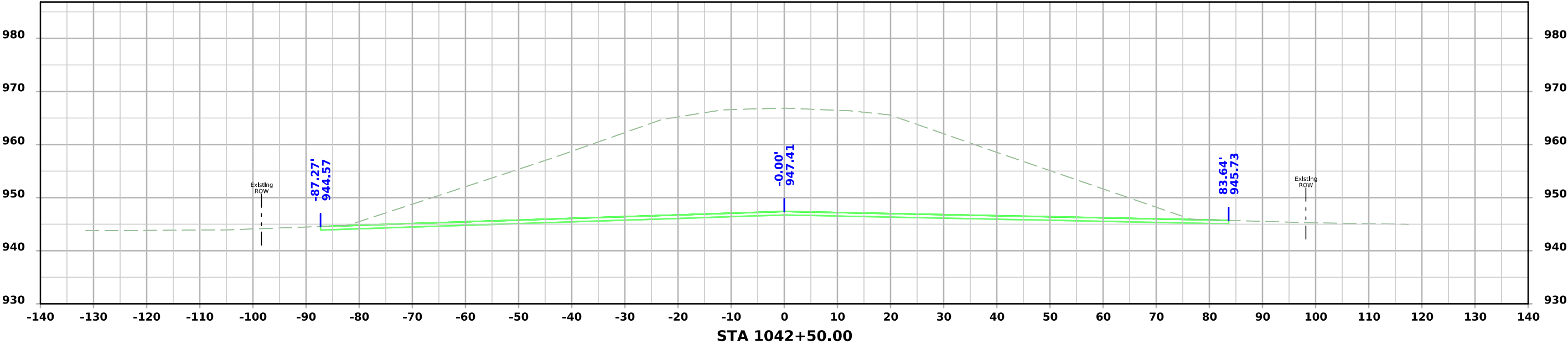
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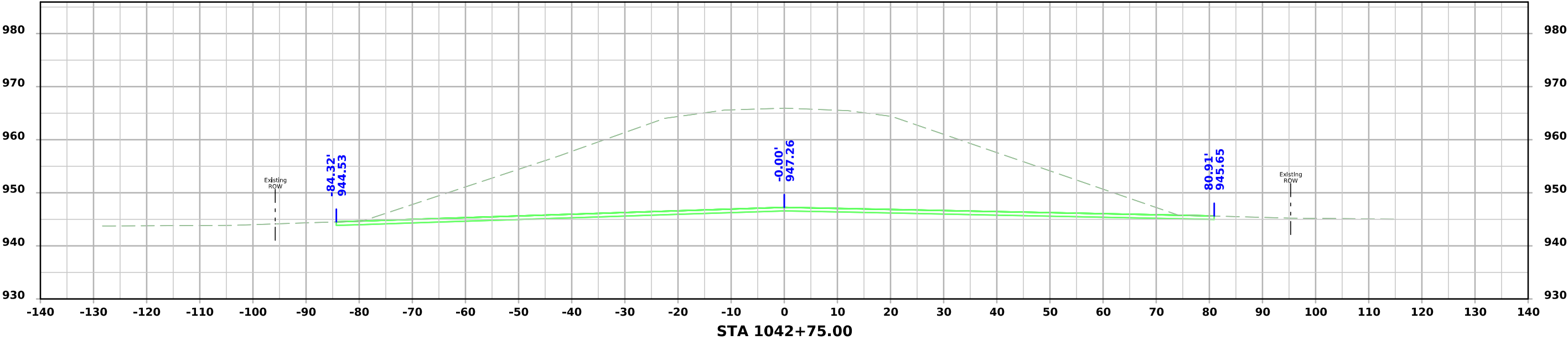
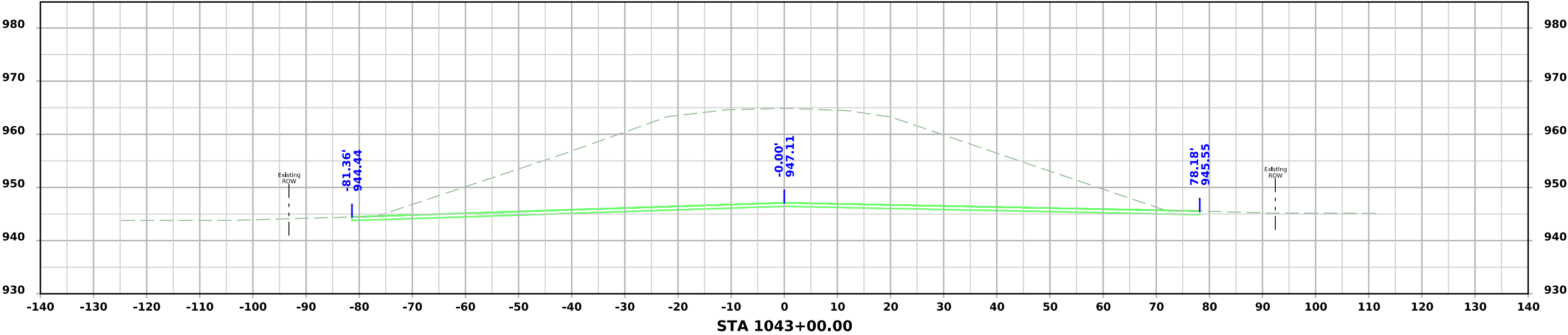
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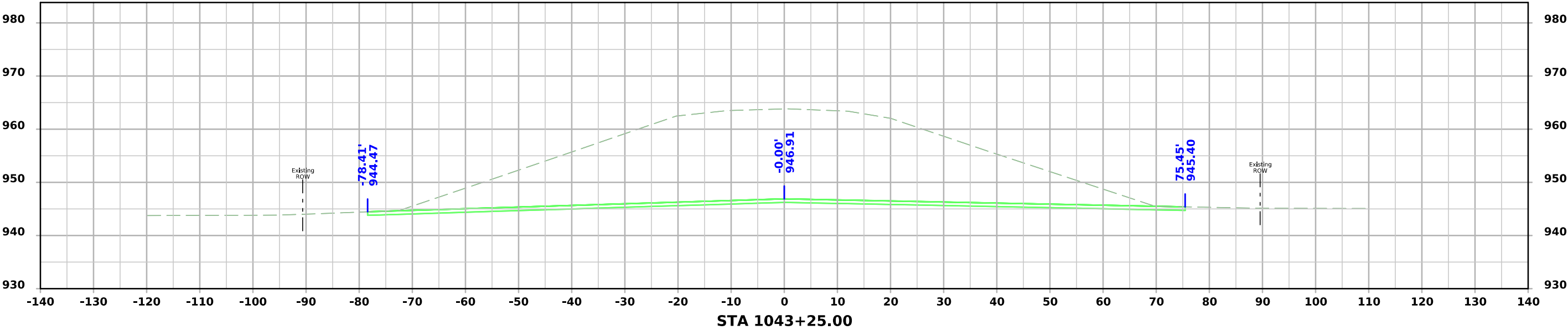
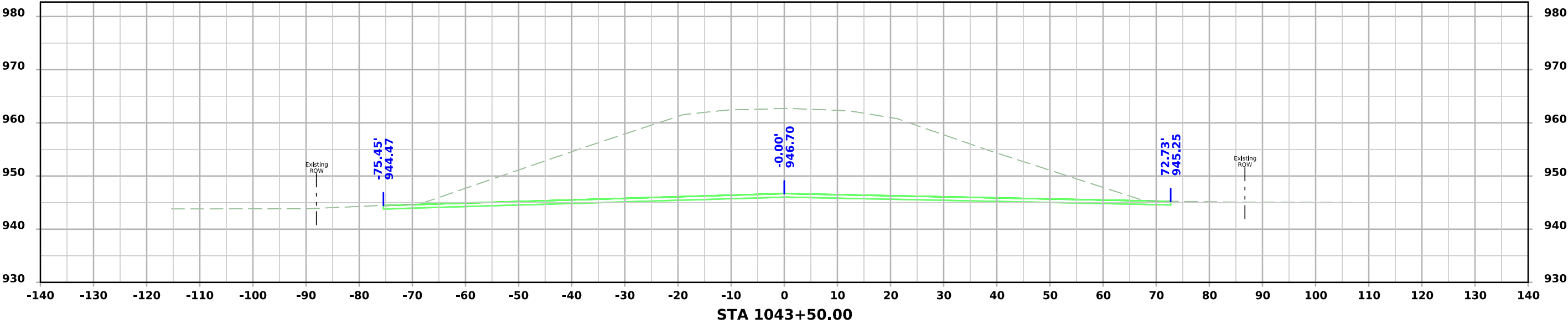
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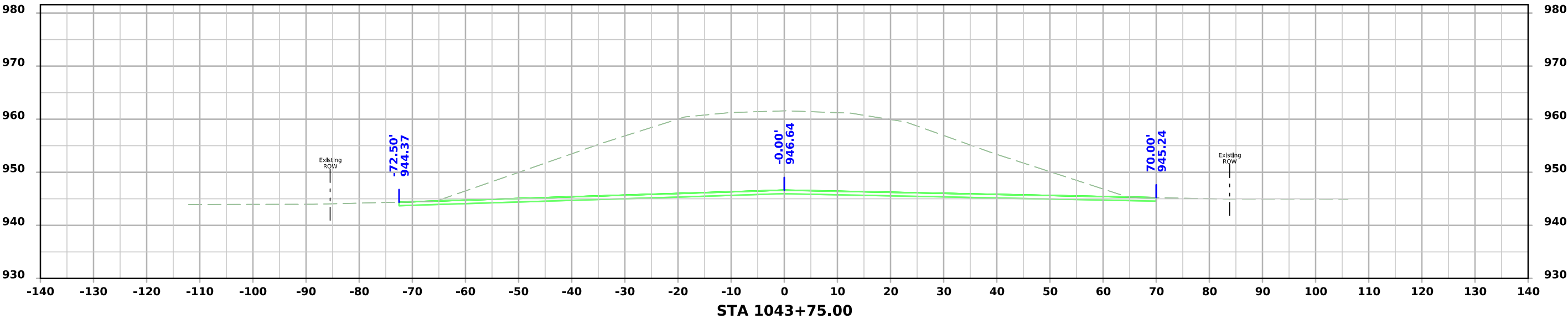
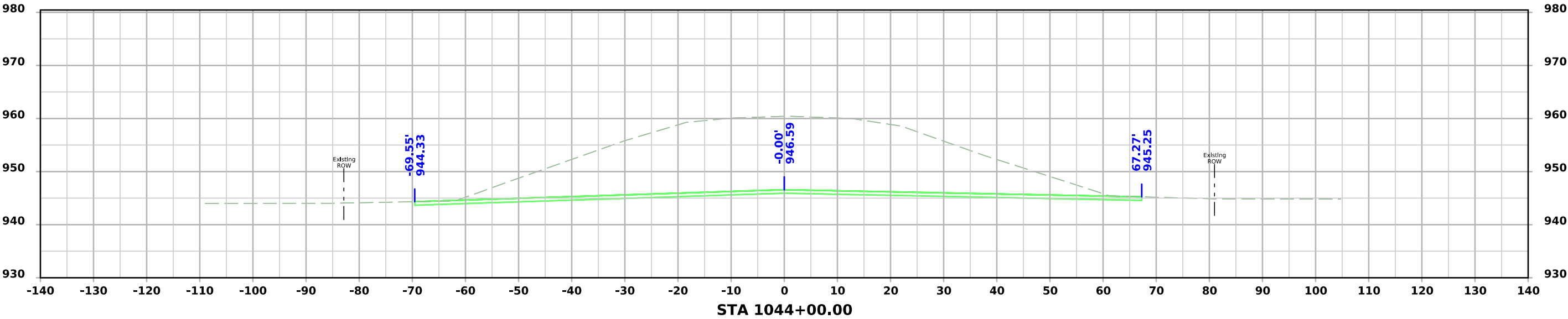
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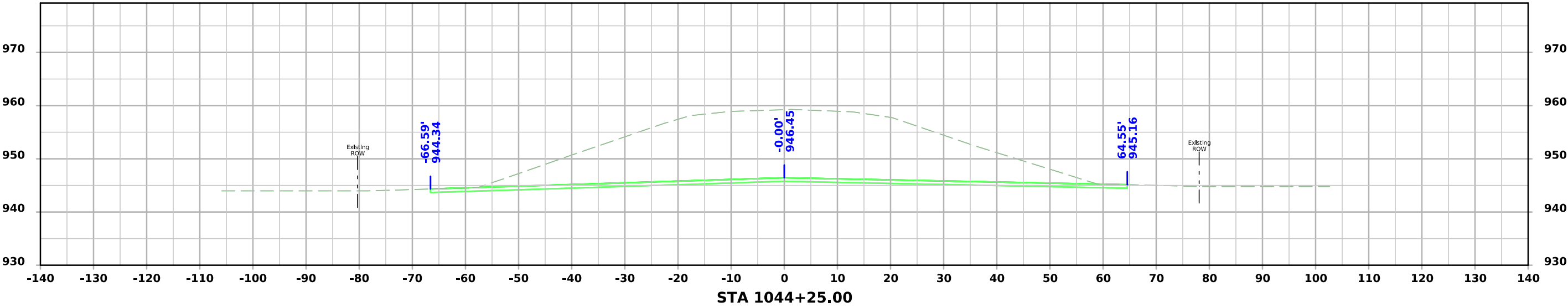
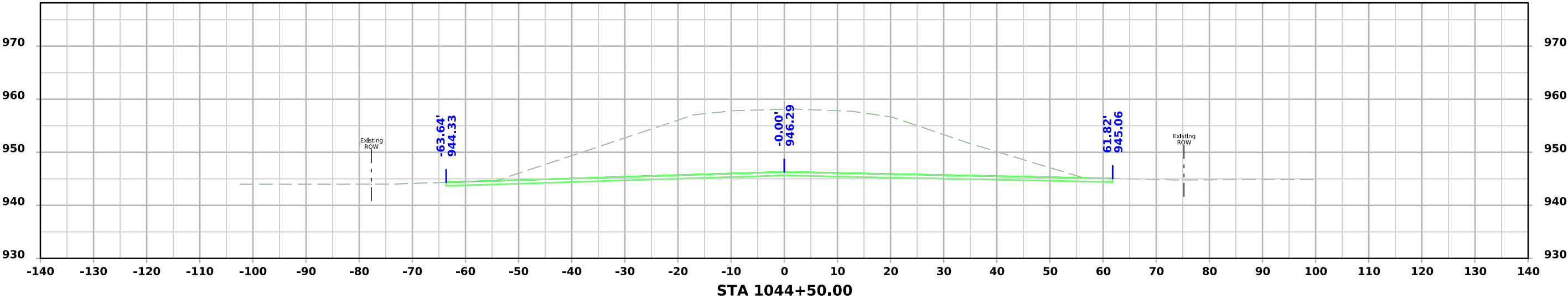
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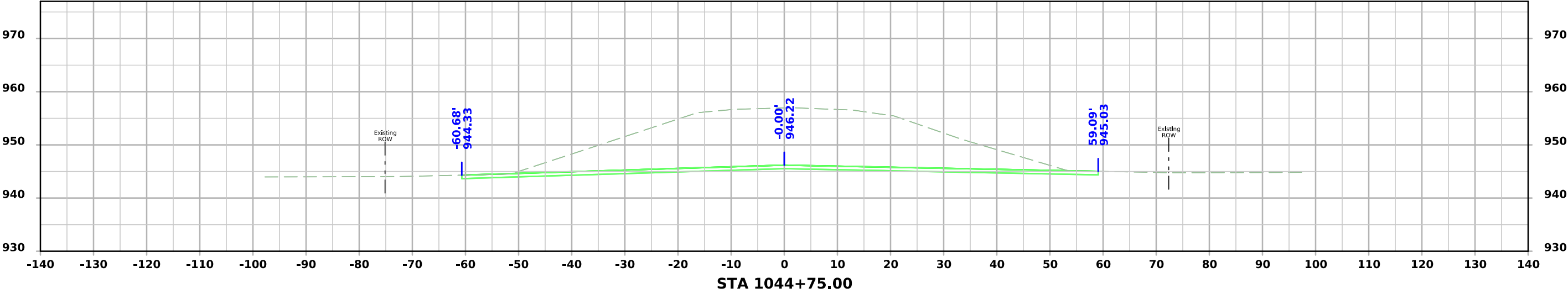
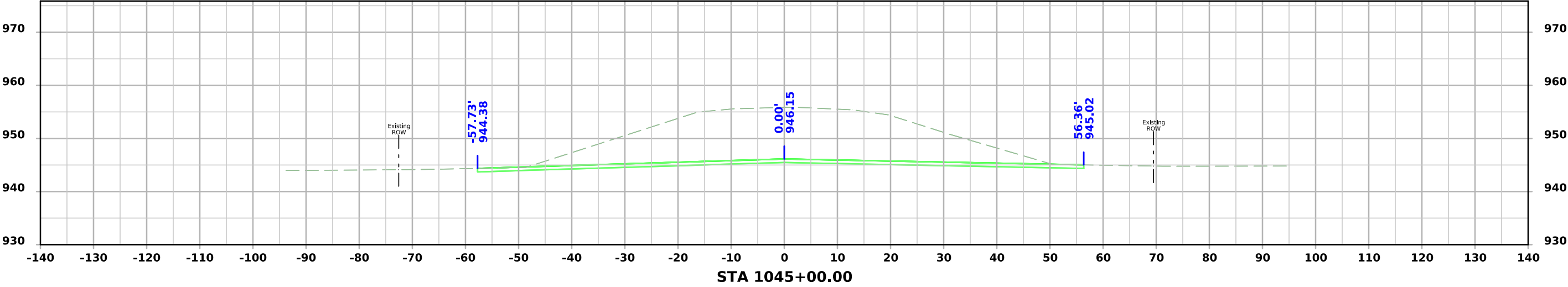
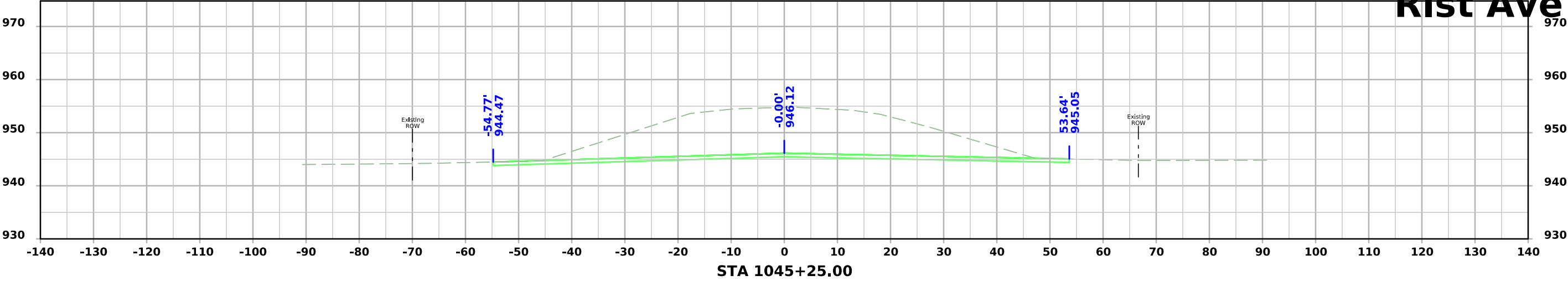
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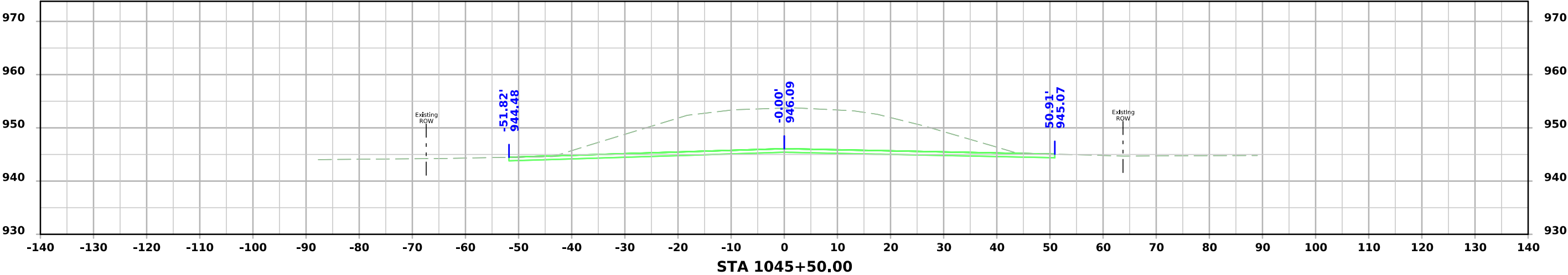
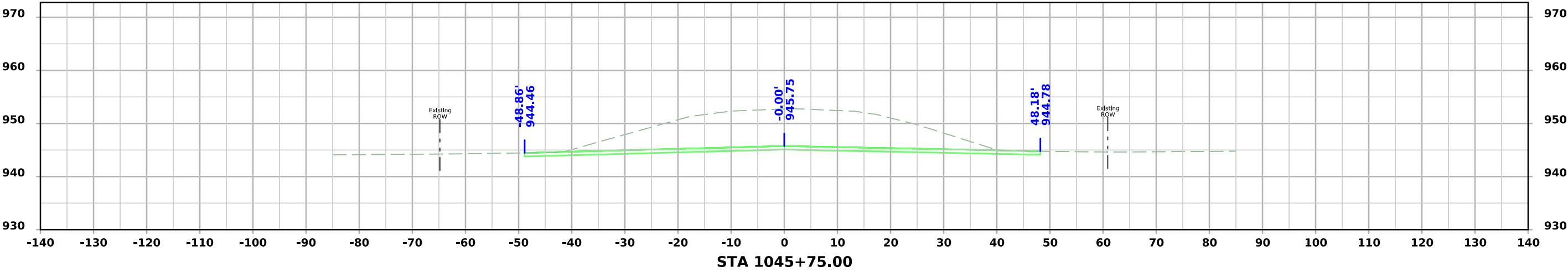
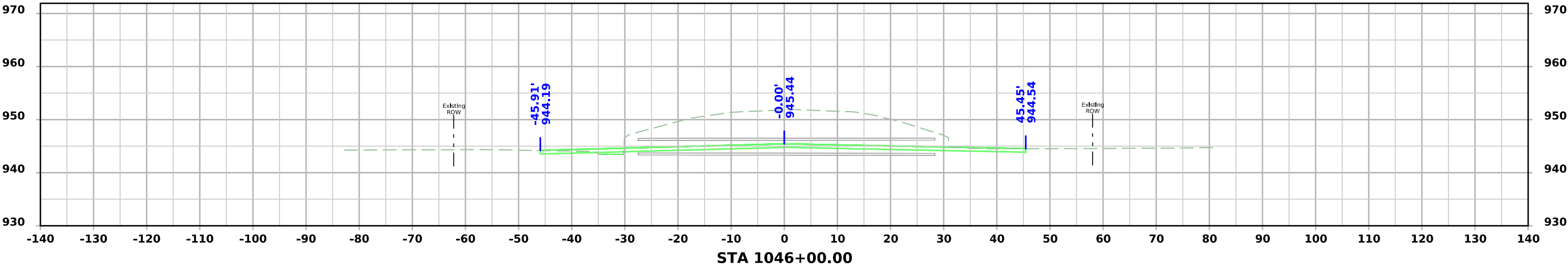
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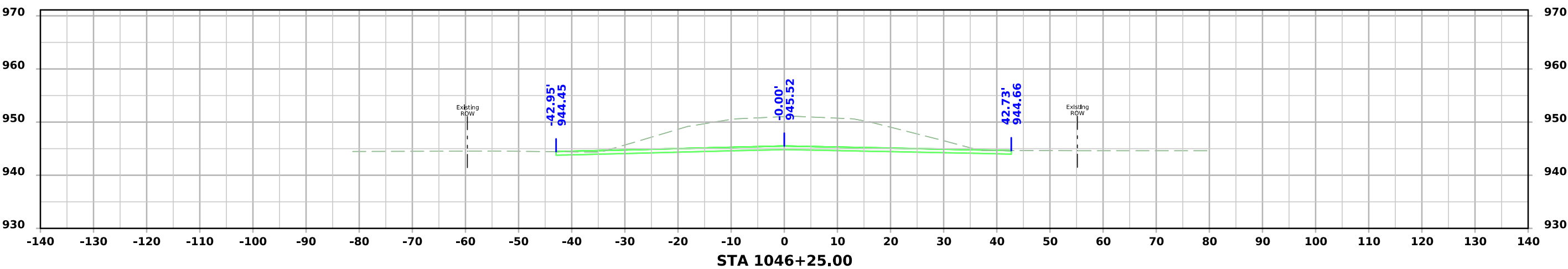
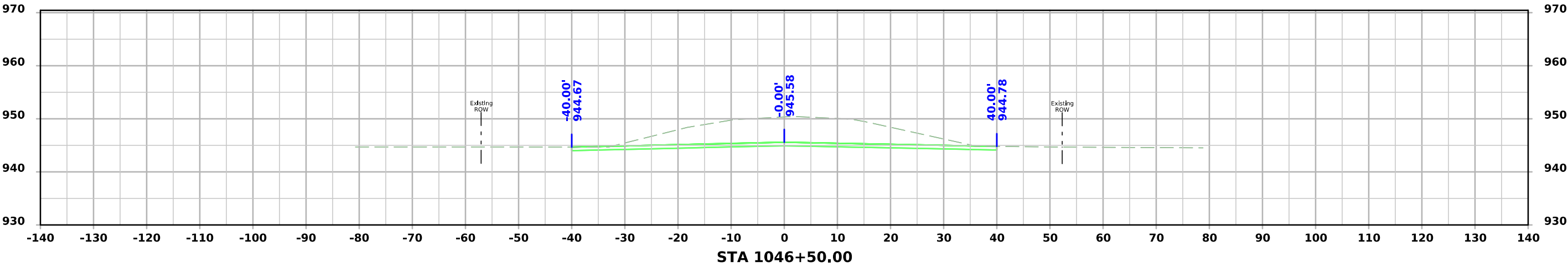
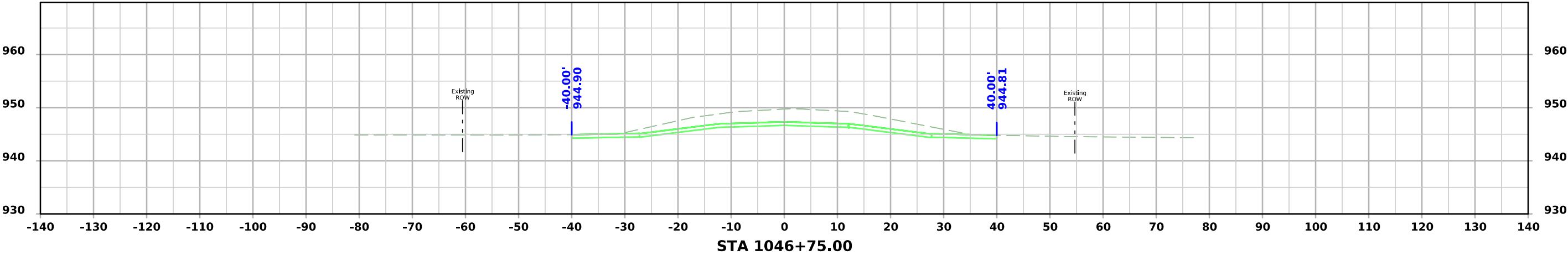
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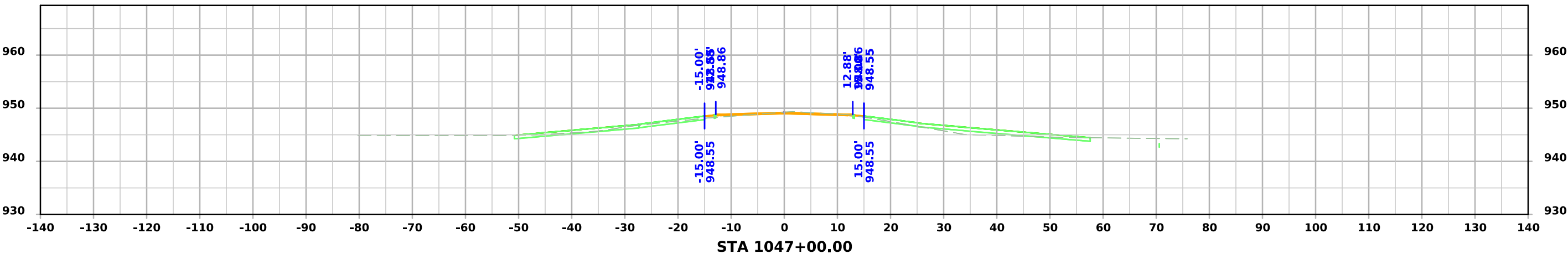
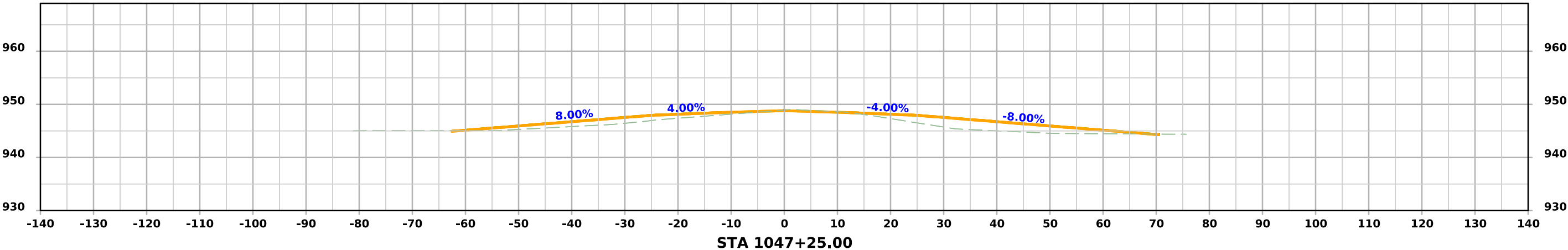
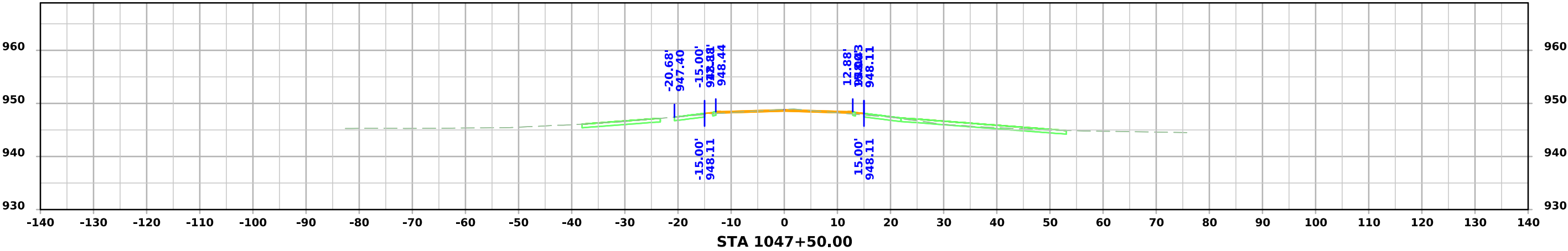
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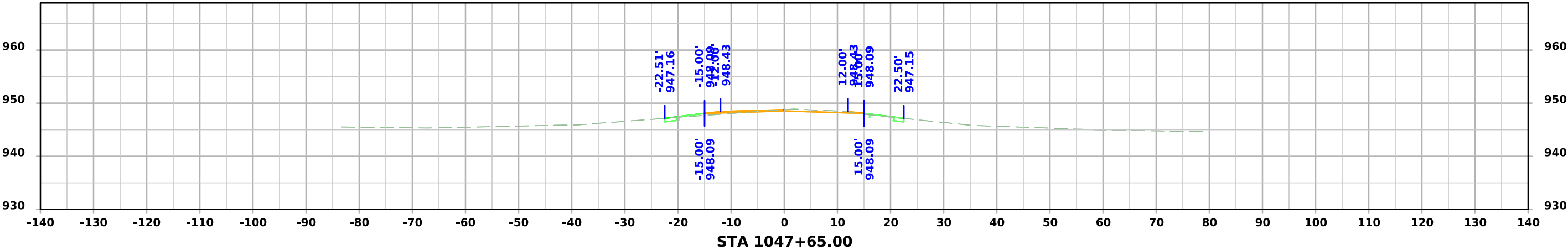
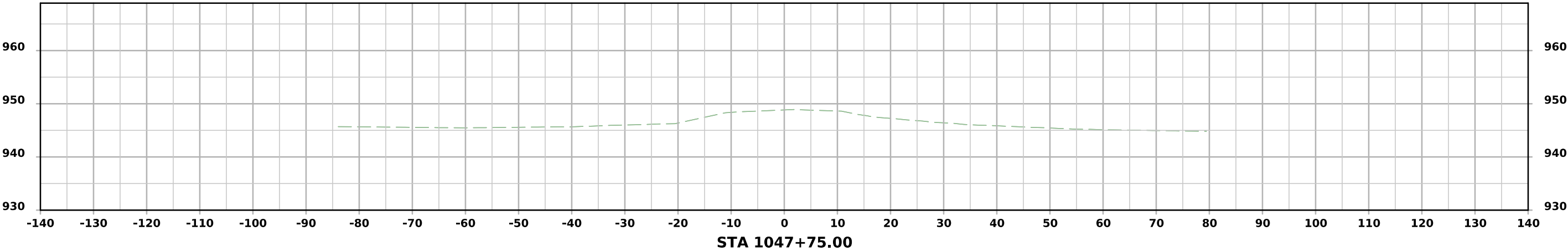
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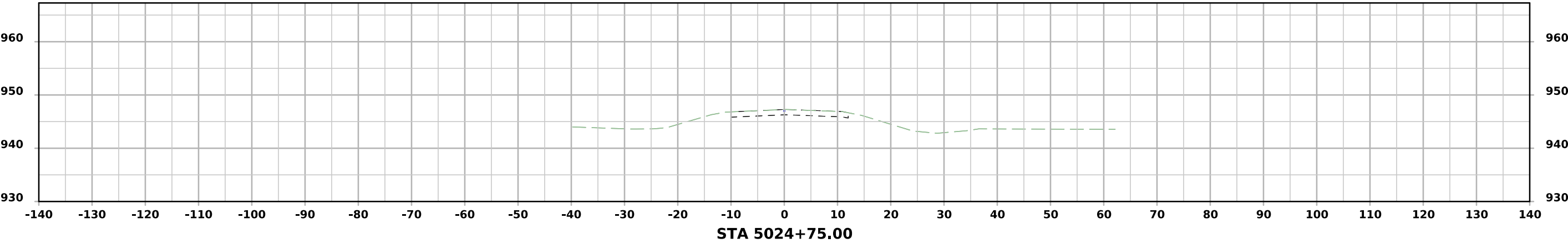
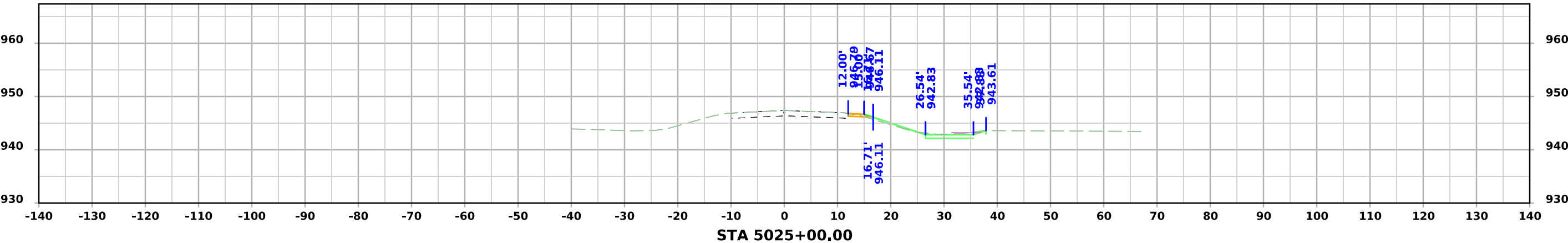
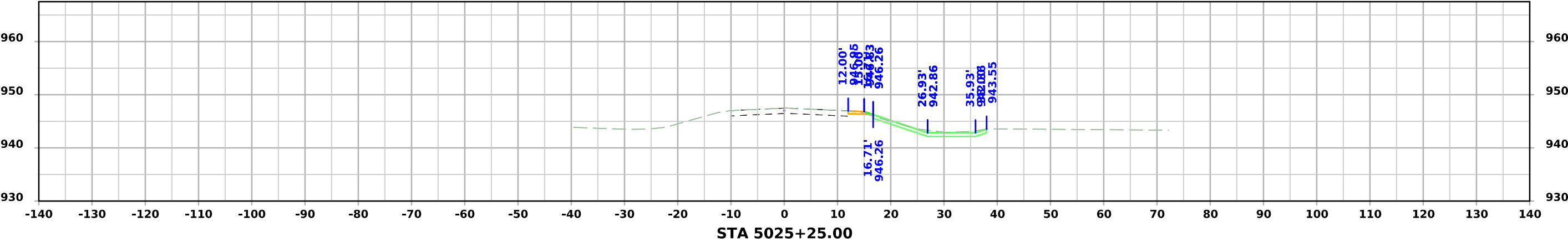
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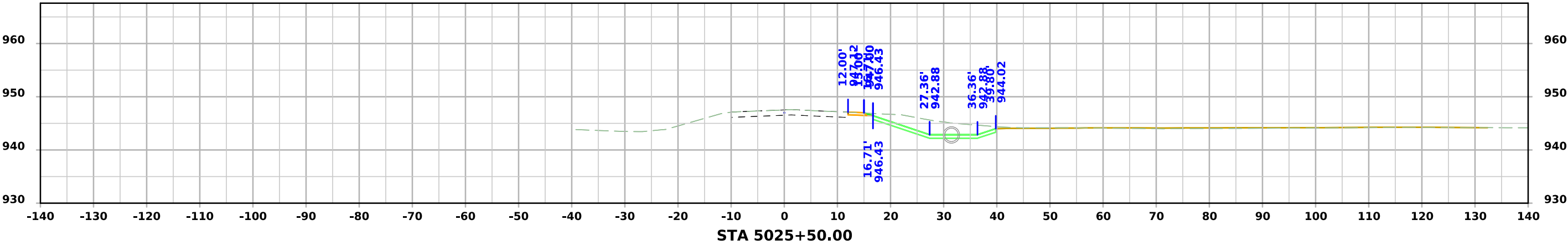
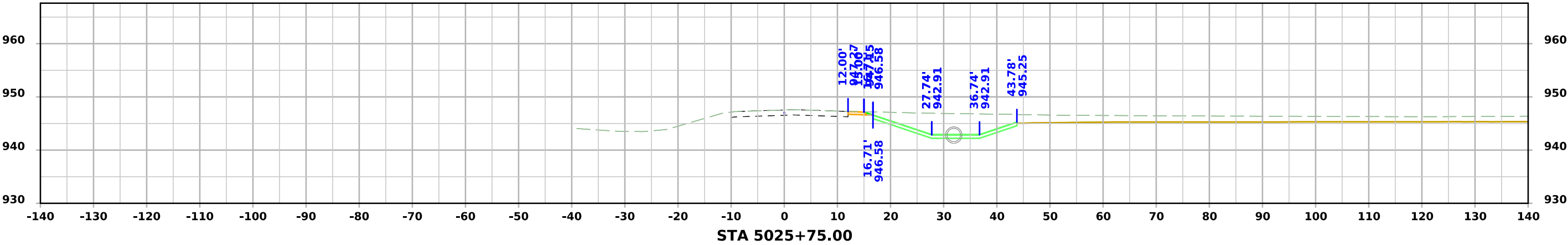
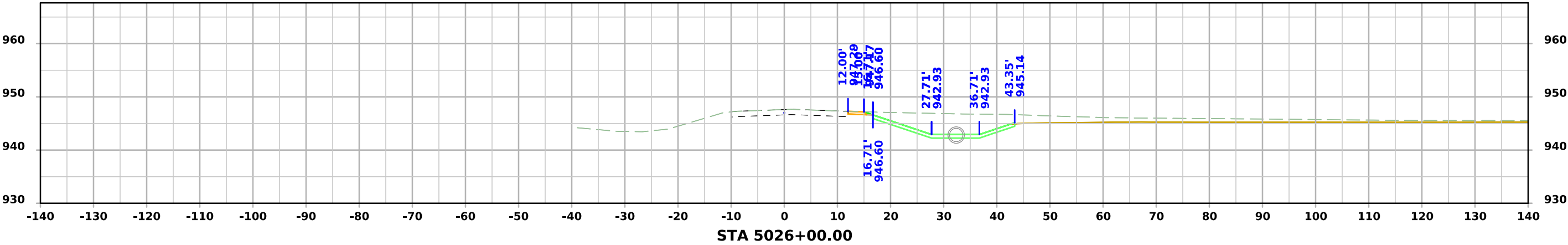
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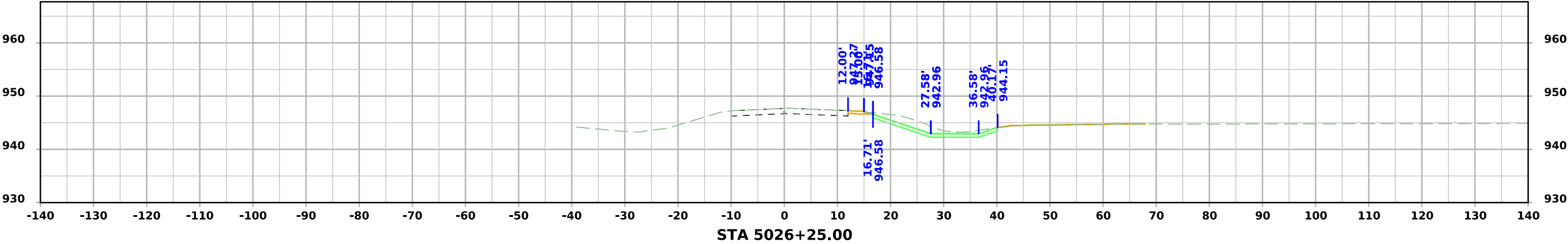
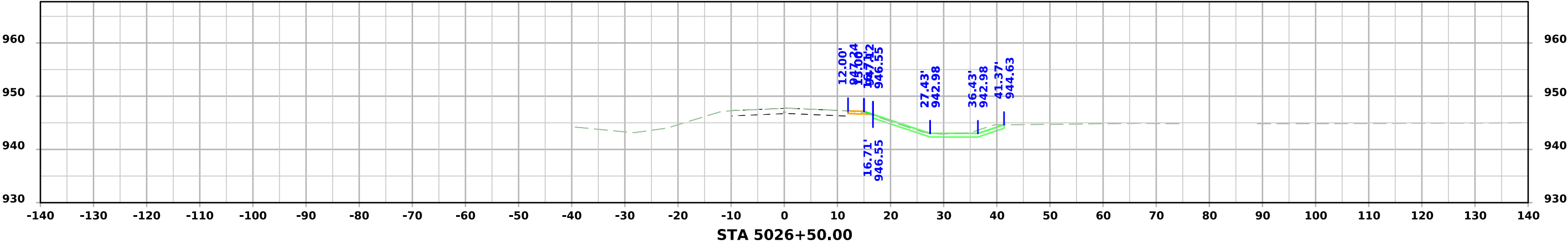
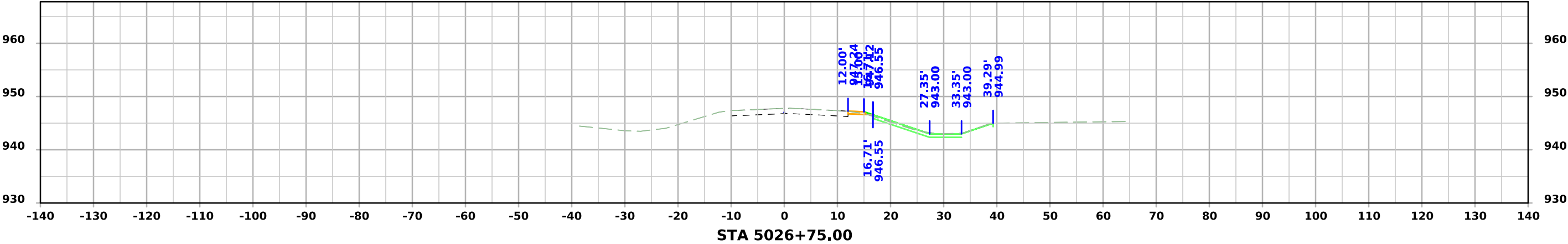
195th St



195th St



195th St



195th St

